

LED CATALOG



LITEON

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Offering one of the industry's broadest product portfolios, Lite-ON's optoelectronic based product solutions are used in a wide variety of applications covering various segments of the computer, communications, consumer, and industrial.

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Table of Contents

Table of Contents	01
Alphanumeric Index	03
Products & Solutions	19

Flash LED 31

Flash LED_2016 Package	32
Flash LED_1610 Package	33
Flash LED_Module Type	33
Flash LED_CSP Type	35

SMD LED 37

Chip LED_Top View	40
Chip LED_Top View_Reverse Mount	46
Chip LED_Top View_Dome Lens	47
Chip LED_Top View_Inner Lens	49
Chip LED_Top View_Dual Color	50
Chip LED_Top View_Reverse Mount Dual Color	53
Chip LED_Top View_Multi Color	54
Chip LED_Side View	58
Chip LED_Side View with Reflector	60
Chip LED_Side View_Dual Color	61
Chip LED_Side View_Multi Color	62
PLCC_Top View	65
PLCC_Top View_Dual Color	71
PLCC_Top View_Multi Color	72
PLCC_Side View	76
PLCC_Side View_Dual Color	79
PLCC_Side View_Multi Color	80

Through Hole Lamp 82

3mm	83
3mm_Dual Color	85
4mm	87
5mm	87
5mm_Dual Color	88
5mm_0.5W	88
RGB Lamp	89
Circuit Board Indicator (CBI)_Single Level	89
Circuit Board Indicator (CBI)_Bi-Level	92
Circuit Board Indicator (CBI)_Tri-Level	94
Circuit Board Indicator (CBI)_Quad-Level	94
Circuit Board Indicator (CBI)_Quin-Level	95
Circuit Board Indicator (CBI)_PIP	95
Circuit Board Indicators (CBI) with SMD LED	97

LED Display 99

Numeric Display_Single Digit	101
Numeric Display_Dual Digits	110
Numeric Display_Triple Digits	117
Numeric Display_Quadruple Digits	120
Numeric Display_Quintuple Digits	128
Numeric Display_SMD Type	129
Alphanumeric Display	139
Alphanumeric Display_SMD Type	143
Dot Matrix_5X7 Single Color	144
Dot Matrix_5X8 Single Color	147
Dot Matrix_8X8 Single Color	149
Dot Matrix_8X8 Multi Color	151
Dot Matrix_16X16 Single Color	152
Light Bar Array	154
LED Display Module	157

Automotive LED 160

Interior_Chip LED, PLCC.....	161
Interior_Side LED.....	163
Interior_Multi Color 3-in-1 LED.....	164
Interior/Exterior_PLCC4/6 LED.....	165
Exterior_Through Hole Lamp.....	166
Exterior_High Power LED.....	168
Exterior_High Intensity Chip Array.....	170

Signage LED 171

Chip LED Single Color.....	172
Chip LED Multi Color.....	173
Chip LED Multi Color (IC Embedded).....	174
PLCC Single Color.....	175
PLCC Multi Color.....	176
Through Hole Lamp_3mm.....	178
Through Hole Lamp_4mm.....	179
Through Hole Lamp_5mm.....	181
Through Hole Lamp_5mm_Dual Color.....	183

Lighting LED 184

Middle Power.....	185
High Power.....	189
Ceramic COB.....	191
MCPCB COB.....	195

Infrared Emitter and Detector 197

IR Emitter_3mm Through Hole Type.....	198
IR Emitter_5mm Through Hole Type.....	201
IR Emitter_Side Look.....	202
IR Emitter_SMD Side View.....	203
IR Emitter_SMD Type.....	204
IR Emitter_SMD Bowl Type.....	208
IR Emitter_High Power SMD.....	209
IR Emitter_SMD Type.....	209
Photodiode_5mm Through Hole Type.....	210
Photodiode_Side Look.....	210
Photodiode_SMD Side Look.....	212
Photodiode_SMD Type.....	213
Phototransistors_3mm Through Hole Type.....	215
Phototransistors_Side Look.....	217
Phototransistors_SMD Type.....	219
Photolink_Transmitter.....	222
Infrared Transceiver.....	224

Optical Sensors 225

Ambient Light Sensor.....	226
RGB Color Sensor.....	227
UV Sensor.....	228
Proximity Sensor.....	228
2-in-1 Integrated Sensor.....	229
3-in-1 Integrated Sensor.....	230
4-in-1 Integrated Sensor.....	232
Gesture Integrated Sensor.....	233
Heart Rate Monitoring Sensor.....	234
Reflective Sensor.....	236
Transmissive Sensor_Slotted Type.....	238
Transmissive Sensor_Actuator Type.....	245

Photocoupler 246

General Purpose Phototransistor Photocoupler.....	249
Darlington Transistor Output Photocoupler.....	252
Triac Output Photocoupler.....	254
1MBd Transistor Output photocoupler.....	255
10MBd Logic Gate/ 15MBd CMOS Photocoupler.....	256
100kBd Darlington Output Photocoupler.....	257
Integrated Gate Drive Photocoupler.....	258
Schmitt Trigger.....	260
Intelligent Power Module Interface Photocoupler.....	261

UV LED 263

UV LED.....	264
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Worldwide Contacts 266

REPRESENTATIVES AND DISTRIBUTORS	
ASIA / PACIFIC.....	267
EMEA.....	270
Americas.....	277
Branch Offices.....	296



Alphanumeric Index

Alphanumeric Index

4N25	251	LTC-46F6CKS-P	138	LTC-2721KF	117
4N26	251	LTC-46F6TB-P	138	LTC-2721KS	117
4N27	251			LTC-2721TB	117
4N28	251	LTC-57C7KD	125	LTC-2723JD	121
4N35	251	LTC-57C7KF	125	LTC-2723JF	121
4N37	251	LTC-57C7KG	125	LTC-2723JG	121
		LTC-57C7KR	125	LTC-2723JR	121
6N135-H	255	LTC-57C7KS	125	LTC-2723JS	121
6N135-L	255			LTC-2723TB	121
6N136-H	255	LTC-561JD	119	LTC-2750JG	122
6N136-L	255	LTC-561JG	119	LTC-2750KD	122
6N137-L	256	LTC-561KF	119	LTC-2750KF	122
6N138-L	257	LTC-561KR	119	LTC-2750KR	122
6N139-L	257	LTC-561KS	119	LTC-2750KS	122
		LTC-561TB	119	LTC-2750TBE	122
CNY17-1	251				
CNY17-2	251	LTC-571JD	119	LTC-3710KD	123
CNY17-3	251	LTC-571JG	119	LTC-3710KG	123
CNY17-4	251	LTC-571KF	119	LTC-3718KD	123
CNY17F-1	251	LTC-571KR	119	LTC-3718KG	123
CNY17F-2	251	LTC-571KS	119		
CNY17F-3	251	LTC-571TB	119	LTC-4624JD	118
CNY17F-4	251			LTC-4624JG	118
		LTC-2621JD	117	LTC-4624JR	118
H11L1-L	260	LTC-2621JG	117	LTC-4624KF	118
H11L2-L	260	LTC-2621JR	117	LTC-4624KS	118
H11L3-L	260	LTC-2621KF	117	LTC-4624TB	118
		LTC-2621KS	117	LTC-4627JD	124
HSDL-3201-008	224			LTC-4627JF	124
HSDL-3201-021	224	LTC-2621TB	117	LTC-4627JG	124
HSDL-3208-025	224	LTC-2623JD	121	LTC-4627JR	124
HSDL-3208-S25	224	LTC-2623JF	121	LTC-4627JS	124
		LTC-2623JG	121	LTC-4627TB	124
LTA-1000KD	154	LTC-2623JR	121		
LTA-1000KF	154	LTC-2623JS	121	LTC-4724JD	118
LTA-1000KG	154	LTC-2623TB	121	LTC-4724JG	118
LTA-1000KR	154	LTC-2650JG	122	LTC-4724JR	118
LTA-1000KS	154	LTC-2650KD	122	LTC-4724KF	118
		LTC-2650KF	122	LTC-4724KS	118
LTC-26C7KD-02	120	LTC-2650KR	122	LTC-4724TB	118
		LTC-2650KS	122	LTC-4727JD	124
LTC-46D2SW	125	LTC-2650TBE	122	LTC-4727JF	124
LTC-46F6CKD-P	138			LTC-4727JG	124
LTC-46F6CKF-P	138	LTC-2721JD	117	LTC-4727JR	124
LTC-46F6CKG-P	138	LTC-2721JG	117	LTC-4727JS	124
LTC-46F6CKR-P	138	LTC-2721JR	117	LTC-4727TB	124

Alphanumeric Index

LTC-5623JD	126	LTD-2404CKD-P	135	LTD-5250JD.....	113
LTC-5623JG	126	LTD-2404CKF-P	135	LTD-5250KF.....	113
LTC-5623KF	126	LTD-2404CKG-P	135	LTD-5250KG.....	113
LTC-5623KR.....	126	LTD-2404CKR-P	135	LTD-5250KR	113
LTC-5623KS	126	LTD-2404CKS-P	135	LTD-5250KS.....	113
LTC-5623TB	126	LTD-2404SW-P	135	LTD-5250TB.....	113
LTC-5653KD-01	127	LTD-2601JD.....	110	LTD-5260KD.....	113
LTC-5653KF-01	127	LTD-2601JG.....	110	LTD-5260KF.....	113
LTC-5653KG-01	127	LTD-2601KF.....	110	LTD-5260KG.....	113
LTC-5653KR-01.....	127	LTD-2601KR	110	LTD-5260KR	113
LTC-5653KS-01	127	LTD-2601KS.....	110	LTD-5260KS.....	113
LTC-5653TB-01.....	127	LTD-2601TB.....	110	LTD-5260TB.....	113
LTC-5723JD	126	LTD-2701JD.....	110	LTD-5435CKD-P	137
LTC-5723JG	126	LTD-2701JG.....	110	LTD-5435CKF-P.....	137
LTC-5723KF	126	LTD-2701KF.....	110	LTD-5435CKG-P	137
LTC-5723KR.....	126	LTD-2701KR	110	LTD-5435CKR-P	137
LTC-5723KS	126	LTD-2701KS.....	110	LTD-5435CKS-P.....	137
LTC-5723TB	126	LTD-2701TB.....	110	LTD-5435TBE-P	137
LTC-5753KD-01	127	LTD-4516CKD-PM.....	136	LTD-5521AJR.....	114
LTC-5753KF-01	127	LTD-4516CKF-PM.....	136	LTD-5523AJR.....	114
LTC-5753KG-01	127	LTD-4516CKG-PM.....	136	LTD-5621AJG.....	114
LTC-5753KR-01.....	127	LTD-4516CKR-PM.....	136	LTD-5623AJG.....	114
LTC-5753KS-01.....	127	LTD-4516CKS-PM.....	136	LTD-5721AJS	114
LTC-5753TB-01.....	127	LTD-4516TBE-PM	136	LTD-5721AKF.....	114
LTC-7500KD	120	LTD-4608JD.....	112	LTD-5723AJS	114
LTC-7500KF	120	LTD-4608JG.....	112	LTD-5723AKF.....	114
LTC-7500KG.....	120	LTD-4608JS	112	LTD-6410KD.....	115
LTC-7500KR.....	120	LTD-4608KF.....	112	LTD-6410KF.....	115
LTC-7500KS	120	LTD-4608KR	112	LTD-6410KG.....	115
LTD-322JD	111	LTD-4608TB.....	112	LTD-6410KR	115
LTD-322JG	111	LTD-4708JD.....	112	LTD-6410KS.....	115
LTD-322KF	111	LTD-4708JG.....	112	LTD-6410TB.....	115
LTD-322KR.....	111	LTD-4708JS	112	LTD-6610KD.....	115
LTD-322KS.....	111	LTD-4708KF.....	112	LTD-6610KF.....	115
LTD-322TB.....	111	LTD-4708KR	112	LTD-6610KG.....	115
LTD-323JD	111	LTD-4708TB.....	112	LTD-6610KR	115
LTD-323JG.....	111	LTD-5021AJD.....	114	LTD-6610KS.....	115
LTD-323KF	111	LTD-5021TB.....	114	LTD-6610TB.....	115
LTD-323KR.....	111	LTD-5023AJD.....	114	LTD-8302KD.....	116
LTD-323KS.....	111	LTD-5023TB.....	114	LTD-8302KF.....	116
LTD-323TB.....	111			LTD-8302KG.....	116
				LTD-8302KR	116

LTD-8302KS.....	116	LTE-3271B.....	201	LTE-R38386-SE8.....	209
LTD-8302TB.....	116	LTE-3271BL.....	201	LTE-R38386S-S.....	209
LTD-8802KD.....	116	LTE-3273DL.....	201	LTE-R38386S-ZF.....	209
LTD-8802KF.....	116	LTE-3273L.....	201	LTE-R38386-ZF.....	209
LTD-8802KG.....	116	LTE-3276.....	201	LTE-R38386-ZFE8.....	209
LTD-8802KR.....	116	LTE-3279K.....	201	LTE-R38389S-S.....	209
LTD-8802KS.....	116			LTE-R38831S-S.....	209
LTD-8802TB.....	116	LTE-3370L.....	201		
		LTE-3371T.....	201	LTE-S3201.....	208
LTDL-RA16A.....	223	LTE-3372.....	201	LTE-S3206.....	208
LTDL-RA25A.....	223	LTE-3376.....	201	LTE-S9511-E.....	207
				LTE-S9511TS.....	207
LTDL-TA16A.....	222	LTE-3677.....	201	LTE-S9711-J.....	207
LTDL-TA25A.....	222				
LTDL-TA25B.....	223	LTE-4206.....	198	LTF-2505KD.....	128
		LTE-4206C.....	198	LTF-2505KF.....	128
LTE-7F70L.....	201	LTE-4208.....	201	LTF-2505KG.....	128
		LTE-4209.....	198	LTF-2505KR.....	128
LTE-14H0B.....	199	LTE-4238R.....	201	LTF-2505KS.....	128
LTE-16H0B.....	200	LTE-5228A.....	201	LTF-2606KD.....	128
LTE-16K3L.....	198			LTF-2606KF.....	128
		LTE-7377L.....	203	LTF-2606KG.....	128
LTE-18G3N.....	198			LTF-2606KR.....	128
LTE-18H0B.....	200	LTE-C195IRG.....	209	LTF-2606KS.....	128
LTE-32B0L.....	201	LTE-C211-X.....	205	LTH-209-01.....	237
LTE-32B3L.....	201	LTE-C216-P.....	205		
LTE-32F0L.....	201	LTE-C216R-14.....	205	LTH-301-05.....	238
		LTE-C249.....	208	LTH-301-07.....	238
LTE-209.....	199	LTE-C269.....	208	LTH-301-19.....	239
				LTH-301-23.....	239
LTE-302.....	202	LTE-C1501.....	204	LTH-301-27P1.....	240
LTE-304.....	203	LTE-C1506.....	204	LTH-301-32.....	240
LTE-306.....	203	LTE-C1901-ZF.....	204	LTH-301-45W2.....	245
LTE-309.....	202	LTE-C1906R-14.....	204	LTH-301A.....	241
LTE-1650.....	198	LTE-C9301.....	205	LTH-306-01.....	241
		LTE-C9306.....	205	LTH-306-02.....	242
LTE-2872U.....	202	LTE-C9306R-14.....	205	LTH-306-04.....	242
		LTE-C9501-E-T.....	206	LTH-306-06W1.....	245
LTE-3070L.....	201	LTE-C9506B.....	206	LTH-306-09P1.....	245
		LTE-C9901.....	206	LTH-306-11.....	243
LTE-3220L.....	201			LTH-306-41P1.....	243
LTE-3223L.....	201	LTE-R38381-S.....	209	LTH-306-53P1.....	244
LTE-3226.....	201	LTE-R38386-S.....	209	LTH-306-64.....	244

Alphanumeric Index

LTH-1550-01236	LTL2R3TCY3JS 181	LTL17KTBS3KS 178
LTH-1550-06237	LTL2R3TGY3KS 181	LTL17KTGX3KS84
LTH-1650-01237	LTL2R3YW3KS 181	LTL17KTGX3KS 178
LTL1BEKVJNN86	LTL2T3TBK587	LTL30EGCBKJ88
LTL1BESTBKJH185P91	LTL2T3TGK687	LTL30EJ9NN88
LTL1BETBEK5H14992	LTL2V3EUJS 181	LTL30EKDFGJ88
LTL1BETBEK5-HF86	LTL2V3EY3KS 181	LTL30SETG3J 183
LTL1BETBYJR586	LTL3H3EPADS 179	LTL-42M3NHKP94
LTL1CHKEKNN83	LTL3H3TBNADS 179	LTL-42M4NH10693
LTL1CHKFKNN83	LTL3H3TGTADS 179	LTL-42NEW8DHBP-190
LTL1CHKGKNN83	LTL4HMEPADS 179	LTL-42NGY8D2H21493
LTL1CHKSKNN83	LTL4HMWSDS-A 179	LTL42NKFKN85
LTL1CHTBK583	LTL4HMYSADS 179	LTL42NKGKNN85
LTL1CHTGK683	LTL4VMYS5D 180	LTL42NKRKNN85
LTL1NHEG6D83	LTL5H3TBDS 182	LTL42NKSNN85
LTL1NHGB4D83	LTL5H3TGDS 182	LTL42TB6N85
LTL1NHSJ4D83	LTL5H3TRDS 182	LTL42TG6N85
LTL1NHTBH4J83	LTL5L3ES7D 182	LTL42TG6NH18490
LTL1NHTGT4TZ83	LTL5L3TGV7D 182	LTL67HGEJ85
LTL1SHER3D 178	LTL5L3YU7DS 182	LTL750RGBHBJ89
LTL1SHEW3KS 178	LTL-14CDJNH7994	LTL-2300HR 155
LTL1SHTBN3DP 178	LTL-14CM1H18392	LTL-2400Y 155
LTL1SHTGV3DP 178	LTL-14CM01H23295	LTL-2500G 155
LTL1SHYW3KS 178	LTL17HGL4T87	LTL-2620M 157
LTL2H3E11K 181	LTL17KCBH5D84	LTL-2655HR 156
LTL2H3TC21K 181	LTL17KCGP4J84	LTL-2655JD 156
LTL2H3Y11K 181	LTL17KET3KS84	LTL-2720Y 157
LTL2P3EX2K 181	LTL17KET3KS 178	LTL-2755Y 156
LTL2P3TCY2K 181	LTL17KFL5D84	LTL-2800G 155
LTL2P3YX2K 181	LTL17KGH5D84	LTL-2820G 157
LTL2R3FU3JSR 181	LTL17KRH5D84	LTL-2855G 156
LTL2R3KFK87	LTL17KRL6D84	LTL-4201M 156
LTL2R3KG87	LTL17KSL5D84	LTLA2H3VYY1K 166
LTL2R3KRK87	LTL17KTBS3KS84	LTLA2R3EW3K 166
LTL2R3KSK87		LTLA2R3YW3K 166

LTLA916VAJ2K.....	167	LTP-757KS.....	144	LTP-3784JG-01.....	142
LTLA916VYJ2K.....	167			LTP-3784KD-01.....	142
LTLA918VEJ3K.....	167	LTP-1457KD.....	145	LTP-3784KF-01.....	142
LTLA918VYJ3K.....	167	LTP-1457KF.....	145	LTP-3784KR-01.....	142
		LTP-1457KG.....	145	LTP-3784KS-01.....	142
LTL-M12RG1H300Q.....	97	LTP-1457KR.....	145		
LTL-M12YG1H300Q.....	98	LTP-1457KS.....	145	LTP-3786JG-01.....	142
				LTP-3786KD-01.....	142
LTL-R42M12NH51.....	96	LTP-1557KD.....	145	LTP-3786KF-01.....	142
LTL-R42NGYAD2H106.....	95	LTP-1557KF.....	145	LTP-3786KR-01.....	142
LTL-R42NGYADH229.....	96	LTP-1557KG.....	145	LTP-3786KS-01.....	142
		LTP-1557KR.....	145		
LTM-0735G.....	157	LTP-1557KS.....	145	LTP-3862JD.....	140
LTM-0735SW.....	157	LTP-1557TBE.....	145	LTP-3862JF.....	140
				LTP-3862JG.....	140
LTM-1008M.....	158	LTP-2057AKA.....	146	LTP-3862JR.....	140
LTM-1302SM.....	159	LTP-2057AKR.....	146	LTP-3862JS.....	140
LTM-1524KS.....	158	LTP-2057AKY.....	146		
LTP-158FFKF.....	152			LTP-4323JD.....	141
LTP-159FFKF.....	152	LTP-2058AKD.....	148	LTP-4323JG.....	141
LTP-185FFMKD-J.....	153	LTP-2058AKF.....	148	LTP-4323KF.....	141
		LTP-2058AKG.....	148	LTP-4323KR.....	141
LTP-229FFKF.....	153	LTP-2058AKR.....	148	LTP-4323KS.....	141
		LTP-2058AKS.....	148		
LTP-537KD.....	139			LTP-4823JD.....	141
LTP-537KF.....	139	LTP-2157AKA.....	146	LTP-4823JG.....	141
LTP-537KG.....	139	LTP-2157AKR.....	146	LTP-4823KF.....	141
LTP-537KR.....	139	LTP-2157AKY.....	146	LTP-4823KR.....	141
LTP-537KS.....	139			LTP-4823KS.....	141
		LTP-2158AKD.....	148		
LTP-587KD.....	139	LTP-2158AKF.....	148	LTP-4824CKD-P.....	143
LTP-587KF.....	139	LTP-2158AKG.....	148	LTP-4824CKF-P.....	143
LTP-587KG.....	139	LTP-2158AKR.....	148	LTP-4824CKG-P.....	143
LTP-587KR.....	139	LTP-2158AKS.....	148	LTP-4824CKR-P.....	143
LTP-587KS.....	139			LTP-4824CKS-P.....	143
		LTP-3362JD.....	140		
LTP-747KD.....	144	LTP-3362JF.....	140	LTP-7188KD.....	149
LTP-747KF.....	144	LTP-3362JG.....	140	LTP-7188KF.....	149
LTP-747KG.....	144	LTP-3362JR.....	140	LTP-7188KG.....	149
LTP-747KR.....	144	LTP-3362JS.....	140	LTP-7188KR.....	149
LTP-747KS.....	144			LTP-7188KS.....	149
LTP-757KD.....	144	LTP-3363CKD-P.....	143		
		LTP-3363CKF-P.....	143	LTP-7488SF.....	151
LTP-757KF.....	144	LTP-3363CKG-P.....	143	LTP-7588SF.....	151
LTP-757KG.....	144	LTP-3363CKR-P.....	143		
LTP-757KR.....	144	LTP-3363CKS-P.....	143	LTP-12788KD.....	149

Alphanumeric Index

LTP-12788KF.....	149	LTPA-P3030CNPTG.....	168	LTPL-C034UVH365.....	264
LTP-12788KG.....	149	LTPA-P3030CWP57.....	168	LTPL-C034UVH375.....	264
LTP-12788KR.....	149			LTPL-C034UVH385.....	264
LTP-12788KS.....	149	LTPA-P3535CBPPA.....	168	LTPL-C034UVH395.....	264
		LTPA-P3535CWP.....	168	LTPL-C034UVH405.....	264
				LTPL-C034UVH430.....	264
LTP-14058AKD.....	147	LTPA-S38FUMBPPA.....	169		
LTP-14058AKF.....	147	LTPA-S38FUMWE.....	169	LTPL-C035BH450.....	189
LTP-14058AKG.....	147			LTPL-C035BH470.....	189
LTP-14058AKR.....	147	LTPL-A133DWARB.....	35	LTPL-C035GH500.....	189
LTP-14058AKS.....	147	LTPL-A136DWAYB.....	35	LTPL-C035GH530.....	189
LTP-14158AKD.....	147	LTPL-A155DWFWB.....	36	LTPL-C035RH630.....	189
LTP-14158AKF.....	147	LTPL-A157DWFYB.....	36	LTPL-C035RH660.....	189
LTP-14158AKG.....	147			LTPL-C035RH730.....	189
LTP-14158AKR.....	147	LTPL-C08EAS.....	190	LTPL-C035RN615.....	189
LTP-14158AKS.....	147	LTPL-C08ECT.....	190		
		LTPL-C08ERS.....	190	LTPL-C095WPGE.....	33
LTP-18088KD.....	150			LTPL-C095WPRB.....	33
LTP-18088KF.....	150	LTPL-C08UVH365.....	264	LTPL-C095WPYB.....	33
LTP-18088KG.....	150	LTPL-C08UVH375.....	264		
LTP-18088KR.....	150	LTPL-C08UVH385.....	264	LTPL-C0673WPYB.....	32
LTP-18088KS.....	150	LTPL-C08UVH395.....	264	LTPL-C0675WPGB.....	32
		LTPL-C08UVH405.....	264	LTPL-C0675WPRB.....	32
LTPA-C35NUAWP.....	169			LTPL-C0675WPYB.....	32
LTPA-C35NUBBPPA.....	169	LTPL-C16FBD470.....	189	LTPL-C0677WPGB.....	32
		LTPL-C16FGH530.....	189	LTPL-C0677WPHB.....	32
LTPA-C1915.....	170	LTPL-C16FRD630.....	189	LTPL-C0677WPRB.....	32
		LTPL-C16FRD660.....	189	LTPL-C0677WPYB.....	32
LTPA-C3535ANPTB.....	169	LTPL-C16FRM780.....	189	LTPL-C0678WPYB.....	32
LTPA-C3535AWP.....	169				
LTPA-C3535BBPPA.....	169	LTPL-C16FUVH400.....	265	LTPL-C0685WCGB.....	33
LTPA-C3535BWP57.....	169	LTPL-C16FUVM365.....	265		
LTPA-C3535CNPKE.....	169	LTPL-C16FUVM375.....	265	LTPL-C0695DAYD.....	34
LTPA-C3535CNPTG.....	169	LTPL-C16FUVM385.....	265		
		LTPL-C16FUVM395.....	265	LTPL-M03614ZS27-T0.....	192
LTPA-H2S3138.....	170	LTPL-C16FUVM405.....	265	LTPL-M03614ZS30-T0.....	192
LTPA-H3S4238.....	170			LTPL-M03614ZS40-T0.....	192
LTPA-H4S5338.....	170	LTPL-C034AH610.....	190	LTPL-M03622ZS30-T0.....	192
LTPA-H5S6438.....	170	LTPL-C034DH.....	190	LTPL-M03622ZS30-T0.....	192
		LTPL-C034OH590.....	190	LTPL-M03622ZS30-T0.....	192
LTPA-P35PUCBPPA.....	168			LTPL-M04520QS30-T0.....	196
LTPA-P35PUCWP.....	168	LTPL-C034UVD365.....	264	LTPL-M04520ZS27-T0.....	196
LTPA-P35PUDNPKE.....	168	LTPL-C034UVD375.....	264	LTPL-M04520ZS30-T0.....	196
		LTPL-C034UVD385.....	264	LTPL-M04520ZS40-T0.....	196
LTPA-P3030ANPTB.....	168	LTPL-C034UVD395.....	264		
LTPA-P3030CBPPA.....	168			LTPL-M04530QS30-T0.....	196
LTPA-P3030CNPKE.....	168	LTPL-C034UVD405.....	264		

LTPL-M04530ZS27-T0.....	196	LTPL-P033BS30	188	LTR-820HR.....	236
LTPL-M04530ZS30-T0.....	196	LTPL-P033BS40	188	LTR-1650D.....	215
LTPL-M04530ZS40-T0.....	196	LTPL-P033BS50	188	LTR-3208	216
		LTPL-P033RGB.....	75	LTR-3208E.....	216
LTPL-M07452ZS30-T0.....	194	LTR-209.....	216	LTR-4206	215
LTPL-M07452ZS57-T0.....	194	LTR-209H.....	216	LTR-4206E.....	215
LTPL-M07452ZS65-T0.....	194	LTR-301	217	LTR-5576D	219
LTPL-M07480ZS30-T0.....	194	LTR-303ALS	226	LTR-5579DP1	218
LTPL-M07480ZS57-T0.....	194	LTR-306.....	217	LTR-5888DH.....	218
LTPL-M07480ZS65-T0.....	194	LTR-308ALS	227	LTR-5986H	218
		LTR-309.....	217	LTR-91400.....	233
LTPL-M08206QS30-T0.....	195	LTR-323DB.....	210	LTR-C155-DB.....	213
LTPL-M08206ZS27-T0.....	195	LTR-329ALS	226	LTR-C155-DC	213
LTPL-M08206ZS30-T0.....	195	LTR-380RGB	227	LTR-C950-DB.....	214
LTPL-M08206ZS40-T0.....	195	LTR-390UV	228	LTR-C950-TB-T	220
LTPL-M08210QS30-T0.....	195	LTR-507ALS	229	LTR-C1503	219
LTPL-M08210ZS27-T0.....	195	LTR-516AB	211	LTR-C1903	219
LTPL-M08210ZS30-T0.....	195	LTR-516AD.....	211	LTR-C5510-DC.....	213
LTPL-M08210ZS40-T0.....	195	LTR-526AD.....	210	LTR-C5511-DB	213
LTPL-M08218QS30-T0.....	195	LTR-536AD.....	211	LTR-C9303B.....	220
LTPL-M08218ZS27-T0.....	195	LTR-546AB	212	LTR-S320-DB-L	214
LTPL-M08218ZS30-T0.....	195	LTR-546AD.....	212	LTR-S320-TB.....	222
LTPL-M08218ZS40-T0.....	195	LTR-559ALS	230	LTR-S951-TB.....	221
		LTR-578ALS	230	LTR-S971-TB.....	221
LTPL-M09825QS30-T0.....	193	LTR-579ALS	231	LTS-360KD	104
LTPL-M09825ZS30-T0.....	193	LTR-580RGB	232	LTS-360KF	104
LTPL-M09825ZS40-T0.....	193	LTR-588RGB	232	LTS-360KG	104
LTPL-M09825ZS50-F1.....	193	LTR-590UV	233	LTS-360KR.....	104
LTPL-M09830QS30-T0.....	193	LTR-659PS.....	228	LTS-360KS.....	104
LTPL-M09830ZS30-T0.....	193	LTR-676PS.....	229	LTS-367KD	104
LTPL-M09830ZS40-T0.....	193	LTR-733DBM1-TA	212	LTS-367KF	104
LTPL-M09830ZS50-F1.....	193	LTR-778ALS	231	LTS-367KG	104
		LTR-800HR.....	234	LTS-367KR.....	104
LTPL-M13706ZS27-T0.....	191	LTR-801HR.....	234	LTS-367KS.....	104
LTPL-M13706ZS30-T0.....	191	LTR-806HR.....	235		
LTPL-M13706ZS40-T0.....	191	LTR-810HR.....	235		
LTPL-M13706ZS50-F1.....	191				
LTPL-M13710ZS27-T0.....	191				
LTPL-M13710ZS30-T0.....	191				
LTPL-M13710ZS40-T0.....	191				
LTPL-M13710ZS50-F1.....	191				
LTPL-M13712ZS27-T0.....	191				
LTPL-M13712ZS30-T0.....	191				
LTPL-M13712ZS40-T0.....	191				
LTPL-M13712ZS50-F1.....	191				

Alphanumeric Index

LTS-546AJD.....	106	LTS-2806TBE-P.....	130	LTS-3886CKG-P.....	131
LTS-546AJG.....	106	LTS-2807CKD-P.....	129	LTS-3886CKR-P.....	131
LTS-546AKF.....	106	LTS-2807CKF-P.....	129	LTS-3886CKS-P.....	131
LTS-546AKR.....	106	LTS-2807CKG-P.....	129	LTS-3886CTB-P.....	131
LTS-546AKS.....	106	LTS-2807CKR-P.....	129	LTS-4301JD.....	105
LTS-546TB.....	106	LTS-2807CKS-P.....	129	LTS-4301JF.....	105
LTS-547AJD.....	106	LTS-2807TBE-P.....	129	LTS-4301JG.....	105
LTS-547AJG.....	106	LTS-3361JD.....	102	LTS-4301JR.....	105
LTS-547AJR.....	106	LTS-3361JF.....	102	LTS-4301JS.....	105
LTS-547AKF.....	106	LTS-3361JG.....	102	LTS-4301TB.....	105
LTS-547AKS.....	106	LTS-3361JR.....	102	LTS-4312CKD-PM.....	132
LTS-547TB.....	106	LTS-3361JS.....	102	LTS-4312CKF-PM.....	132
LTS-2301AJD.....	101	LTS-3361TB.....	102	LTS-4312CKG-PM.....	132
LTS-2301AJR.....	101	LTS-3385KD.....	103	LTS-4312CKR-PM.....	132
LTS-2301AKF.....	101	LTS-3385KF.....	103	LTS-4312CKS-PM.....	132
LTS-2301AKG.....	101	LTS-3385KG.....	103	LTS-4312TBE-PM.....	132
LTS-2301AKS.....	101	LTS-3385KR.....	103	LTS-4317CKD-P.....	133
LTS-2301ATB.....	101	LTS-3385KS.....	103	LTS-4317CKF-P.....	133
LTS-2306CKD-P.....	130	LTS-3385TBE.....	103	LTS-4317CKG-P.....	133
LTS-2306CKF-P.....	130	LTS-3386CKD-P.....	131	LTS-4317CKR-P.....	133
LTS-2306CKG-P.....	130	LTS-3386CKF-P.....	131	LTS-4317CKS-P.....	133
LTS-2306CKR-P.....	130	LTS-3386CKG-P.....	131	LTS-4317TBE-P.....	133
LTS-2306CKS-P.....	130	LTS-3386CKR-P.....	131	LTS-4801JD.....	105
LTS-2306TBE-P.....	130	LTS-3386CKS-P.....	131	LTS-4801JF.....	105
LTS-2307CKD-P.....	129	LTS-3386CTB-P.....	131	LTS-4801JG.....	105
LTS-2307CKF-P.....	129	LTS-3861JD.....	102	LTS-4801JR.....	105
LTS-2307CKG-P.....	129	LTS-3861JF.....	102	LTS-4801JS.....	105
LTS-2307CKR-P.....	129	LTS-3861JG.....	102	LTS-4801TB.....	105
LTS-2307CKS-P.....	129	LTS-3861JR.....	102	LTS-4812CKD-PM.....	132
LTS-2307TBE-P.....	129	LTS-3861JS.....	102	LTS-4812CKF-PM.....	132
LTS-2801AJD.....	101	LTS-3861TB.....	102	LTS-4812CKG-PM.....	132
LTS-2801AJR.....	101	LTS-3885KD.....	103	LTS-4812CKR-PM.....	132
LTS-2801AKF.....	101	LTS-3885KF.....	103	LTS-4812CKS-PM.....	132
LTS-2801AKG.....	101	LTS-3885KG.....	103	LTS-4812TBE-PM.....	132
LTS-2801AKS.....	101	LTS-3885KR.....	103	LTS-4817CKD-P.....	133
LTS-2801ATB.....	101	LTS-3885KS.....	103	LTS-4817CKF-P.....	133
LTS-2806CKD-P.....	130	LTS-3885TBE.....	103	LTS-4817CKG-P.....	133
LTS-2806CKF-P.....	130	LTS-3886CKD-P.....	131	LTS-4817CKR-P.....	133
LTS-2806CKG-P.....	130	LTS-3886CKF-P.....	131	LTS-4817CKS-P.....	133
LTS-2806CKR-P.....	130	LTS-3886CKG-P.....	131	LTS-4817TBE-P.....	133
LTS-2806CKS-P.....	130	LTS-3886CKR-P.....	131		

LTS-5001AJD	107	LTS-23805JG	109	L TSA-S089ZWET	163
LTS-5001AJR	107	LTS-23805KD	109	L TSA-T680KEWT	163
LTS-5003AJD	107	LTS-23805KF	109	L TSA-T680KSWT	163
LTS-5003AJR	107	LTS-23805KR	109	L TSA-T680VEWT	163
		LTS-23805KS	109	L TSA-T680VSWT	163
LTS-5325CKD-P	134			L TSA-T680ZBWT-3	163
LTS-5325CKF-P	134	L TSA-C150KEKT	162	L TSA-T680ZGWT-3	163
LTS-5325CKG-P	134	L TSA-C150KSKT	162	L TSA-T680ZHET	163
LTS-5325CKR-P	134	L TSA-C150TBK5	162	L TSA-T680ZWET	163
LTS-5325CKS-P	134	L TSA-C150TBV5	162		
LTS-5325TBE-P	134	L TSA-C150TBW5	162	L TSA-W150TBA5	162
		L TSA-C150TGK5	162		
LTS-5501ATB	107			L TSA-W170DBC5	161
LTS-5503ATB	107	L TSA-C170KEKT	161	L TSA-W170ZTBAT-WT	161
LTS-5601AJG	107	L TSA-C170KSKT	161	L TSA-W191DBS5	161
LTS-5603AJG	107	L TSA-C170TBKT	161		
LTS-5701AJS	107	L TSA-C170TGKT	161	L TSN-B32JEGBB6	173
LTS-5701AKF	107	L TSA-C191KEKT	161	L TSN-B68JEGBB6	173
LTS-5703AJS	107	L TSA-C191KSKT	161		
LTS-5703AKF	107	L TSA-C191TBK5	161	L TSN-C170DS	172
		L TSA-C191TGK5	161	L TSN-C170KSWT	172
LTS-5825CKD-P	134			L TSN-C191DS	172
LTS-5825CKF-P	134	L TSA-E67RVAWT	165	L TSN-C191KSKT	172
LTS-5825CKG-P	134	L TSA-E67RVEWT	165		
LTS-5825CKR-P	134	L TSA-E67RVSWT	165	L TSN-D353EGBW	177
LTS-5825CKS-P	134	L TSA-E67RZHET	165		
LTS-5825TBE-P	134	L TSA-E67RZWET	165	L TSN-E263HEGBK	174
				L TSN-E363CEGBW	174
LTS-10304KD	108	L TSA-G6SPVAKT	166		
LTS-10304KF	108	L TSA-G6SPVEKT	166	L TSN-H213EGBW	176
LTS-10304KG	108	L TSA-G6SPVSKT	166		
LTS-10304KR	108	L TSA-G6SVUAET	166	L TSN-N211QSWT	175
LTS-10304KS	108	L TSA-G6SVUWET	166	L TSN-N211UWET	175
LTS-10304TBE	108			L TSN-N211VSWT	175
LTS-10804KD	108	L TSA-G683ZBEGWU	164	L TSN-N213EGBW	176
LTS-10804KF	108				
LTS-10804KG	108	L TSA-M67KKEWT	162	L TST-006BGEW	80
LTS-10804KR	108	L TSA-M67KKS WT	162	L TST-006GEBW	80
LTS-10804KS	108	L TSA-M67KT BWT	162	L TST-008BGEW	81
LTS-10804TBE	108	L TSA-M67KT GWT	162	L TST-008EGSW	81
		L TSA-M67KTHET	162	L TST-008GEBW	81
LTS-23305JG	109	L TSA-M67KT WET	162	L TST-008TGKEWT	79
LTS-23305KD	109				
LTS-23305KF	109	L TSA-S008RGBWA	165	L TST-010KFKT	77
LTS-23305KR	109	L TSA-S33GBEGK5	164	L TST-010KGKT	77
LTS-23305KS	109	L TSA-S089ZHET	163		

Alphanumeric Index

LTST-010KRKT77	LTST-C19JZEGB1W-5A56	LTST-C191KRKT.....43
LTST-010KSKT77	LTST-C19KBEGK-5A55	LTST-C191KSKT43
LTST-010TBKT77	LTST-C19MGEBK-5A56	LTST-C191TBKT43
LTST-010TGKT77		LTST-C191TGKT43
	LTST-C21KFKT49	
LTST-020KFKT78	LTST-C21KGKT49	LTST-C193KFKT-5A42
LTST-020KGKT78	LTST-C21KRKT49	LTST-C193KGKT-5A42
LTST-020KRKT78	LTST-C21KSKT49	LTST-C193KRKT-5A42
LTST-020KSKT78	LTST-C21TBKT49	LTST-C193KSKT-5A42
LTST-020TBKT78	LTST-C21TGKT49	LTST-C193TBKT-5A42
LTST-020TGKT78		LTST-C193TGKT-5A42
	LTST-C28NBEGK-2A.....54	
LTST-108KFKT79		LTST-C194KFKT42
LTST-108KGKT79	LTST-C150KFKT45	LTST-C194KGKT42
LTST-108KRKT79	LTST-C150KGKT45	LTST-C194KRKT42
LTST-108KSKT79	LTST-C150KRKT45	LTST-C194KSKT42
LTST-108TBKT79	LTST-C150KSKT45	LTST-C194TBKT42
LTST-108TGKT79	LTST-C150TBKT45	LTST-C194TGKT42
	LTST-C150TGKT45	
		LTST-C195KGJRKT51
LTST-5630UBWT70	LTST-C155KGJRKT52	LTST-C195KGKFKT51
LTST-5630UGWT70	LTST-C155KGKFKT52	LTST-C195TBJRKT51
LTST-5630ULWT70	LTST-C155TBJRKT52	
LTST-5630VDWT70		LTST-C197KGKEKT52
LTST-5630VEWT70	LTST-C170KFKT45	LTST-C197KGKSKT52
LTST-5630VSWT70	LTST-C170KGKT45	LTST-C197TGKEKT52
	LTST-C170KRKT45	
LTST-A683BEGW75	LTST-C170KSKT45	LTST-C198KFKT41
LTST-A683GEBW75	LTST-C170TBKT45	LTST-C198KGKT41
	LTST-C170TGKT45	LTST-C198KRKT41
LTST-B28JEGBB-5A54		LTST-C198KSKT41
	LTST-C171KFKT44	LTST-C198TBKT41
LTST-B680UGKT175	LTST-C171KGKT44	LTST-C198TGKT41
LTST-B680UWET175	LTST-C171KRKT44	
LTST-B680VEKT175	LTST-C171KSKT44	LTST-C216KFKT49
LTST-B680VSKT175	LTST-C171TBKT44	LTST-C216KGKT49
	LTST-C171TGKT44	LTST-C216KRKT49
LTST-C19DKFKT44		LTST-C216KSKT49
LTST-C19DKRKT44	LTST-C190KFKT43	LTST-C216TBKT49
LTST-C19DKSKT44	LTST-C190KGKT43	LTST-C216TGKT49
LTST-C19DTGKT44	LTST-C190KRKT43	
	LTST-C190KSKT43	LTST-C230KFKT47
LTST-C19FD1WT57	LTST-C190TBKT43	LTST-C230KGKT47
LTST-C19GD2WT57	LTST-C190TGKT43	LTST-C230KRKT47
	LTST-C191KFKT43	LTST-C230KSKT47
LTST-C19HE1WT55	LTST-C191KGKT43	LTST-C230TBKT47
LTST-C19HRGYW55		

LTST-C230TGKT	47	LTST-C371KGKT	40	LTST-E683EGBW	73
LTST-C231KFKT	46	LTST-C371KRKT	40	LTST-E683EGSW	73
LTST-C231KGKT	46	LTST-C371KSKT	40	LTST-E683FGBW	73
LTST-C231KRKT	46	LTST-C395KGKFKT	51	LTST-E683RGBW	73
LTST-C231KSKT	46	LTST-C395KGKRKT	51	LTST-F680UBET	71
LTST-C231TBKT	46	LTST-C395TBKFKT	51	LTST-F680UBWT	71
LTST-C231TGKT	46			LTST-F680UGWT	71
		LTST-C0610UBWT	65	LTST-F680VEWT	71
LTST-C235KGKRKT	53	LTST-C0610UGWT	65	LTST-F680VSWT	71
LTST-C235KGKSKT	53	LTST-C0610VEWT	65		
LTST-C235TBJRKT	53	LTST-C0610VSWT	65	LTST-G563BBBE	74
		LTST-C0610ZWET	65	LTST-G563DDDWW	74
LTST-C250KFKT	46			LTST-G563EEEW	74
LTST-C250KGKT	46	LTST-C930KFKT	48	LTST-G563SSSW	74
LTST-C250KRKT	46	LTST-C930KGKT	48	LTST-G563ZBBBW	74
LTST-C250KSKT	46	LTST-C930KRKT	48	LTST-G563ZEGBW	74
LTST-C250TBKT	46	LTST-C930KSKT	48	LTST-G563ZGGGW	74
LTST-C250TGKT	46	LTST-C930TBKT	48		
		LTST-C930TGKT	48	LTST-G683ESBW	72
LTST-C255TBKFWT-5A	53			LTST-G683GEBW	72
		LTST-C950KFKT	48	LTST-G683RGBW	72
LTST-C281KFKT-5A	41	LTST-C950KGKT	48		
LTST-C281KGKT-5A	41	LTST-C950KRKT	48	LTST-M140KFKT	67
LTST-C281KRKT-5A	41	LTST-C950KSKT	48	LTST-M140KGKT	67
LTST-C281KSKT-5A	41	LTST-C950TBKT	48	LTST-M140KRKT	67
LTST-C281TBKT-5A	41	LTST-C950TGKT	48	LTST-M140KSKT	67
LTST-C281TGKT-5A	41			LTST-M140QEKT	67
		LTST-C990KFKT	47	LTST-M140QSKT	67
LTST-C283KFKT-5A	40	LTST-C990KGKT	47	LTST-M140TBKT	67
LTST-C283KGKT-5A	40	LTST-C990KRKT	47	LTST-M140TGKT	67
LTST-C283KRKT-5A	40	LTST-C990KSKT	47		
LTST-C283KSKT-5A	40	LTST-C990TBKT	47	LTST-M230UBWT	65
LTST-C283TBKT-5A	40	LTST-C990TGKT	47	LTST-M230UGWT	65
LTST-C283TGKT-5A	40			LTST-M230VEWT	65
		LTST-E680UBWT	70	LTST-M230VSWT	65
LTST-C285KGKFWT-5A	50	LTST-E680UGWT	70	LTST-M230ZWET	65
LTST-C285TBKEWT-5A	50	LTST-E680VEWT	70		
LTST-C285TGKFWT-5A	50	LTST-E680VSWT	70	LTST-M670KFKT	68
LTST-C295KGKFKT	50			LTST-M670KGKT	68
LTST-C295KGKRKT	50	LTST-E682KETBWT	71	LTST-M670KRKT	68
LTST-C295TBKFKT	50	LTST-E682KGKFWT	71	LTST-M670KSKT	68
		LTST-E682KGKSWT	71	LTST-M670TBKT	68
LTST-C371JBKT	40	LTST-E682KRRGWT	71	LTST-M670TGKT	68
LTST-C371JGKT	40	LTST-E682TGKRWT	71		
LTST-C371KFKT	40			LTST-S32F1KT	64

Alphanumeric Index

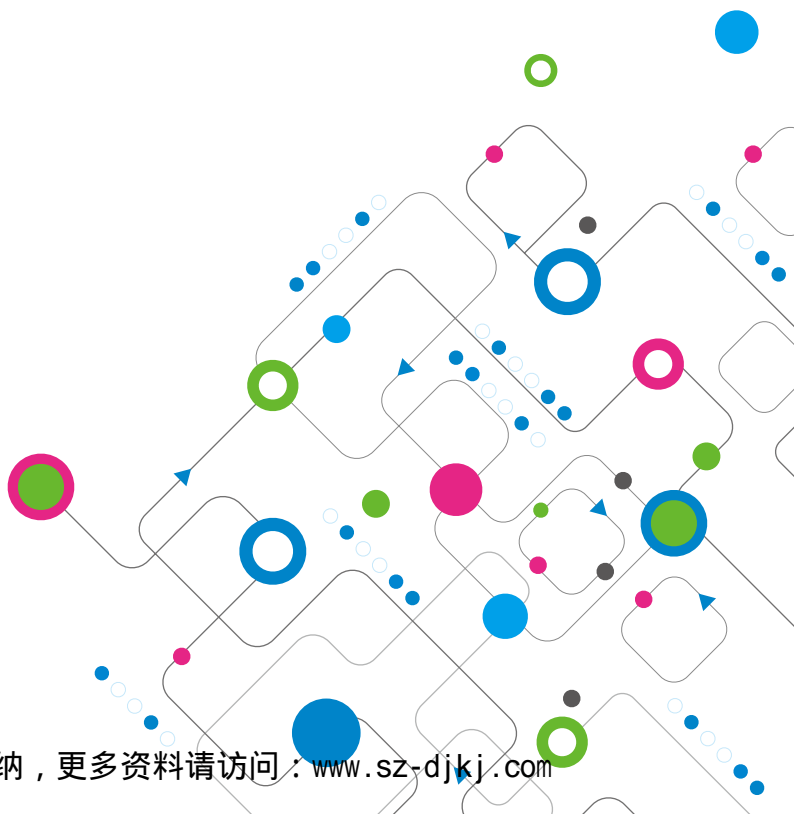
LTST-S33FBEGW-5A.....	62	LTST-S482KFKT-5A.....	58	LTV-215.....	252
LTST-S33GBEGK.....	63	LTST-S482KGKT-5A.....	58	LTV-217.....	250
		LTST-S482KRKT-5A.....	58	LTV-224.....	249
LTST-S43FBEGW.....	63	LTST-S482KSKT-5A.....	58	LTV-227.....	250
		LTST-S482TBKT-5A.....	58	LTV-244.....	249
LTST-S110KFKT.....	59	LTST-S482TGKT-5A.....	58	LTV-245.....	252
LTST-S110KGKT.....	59			LTV-247.....	250
LTST-S110KRKT.....	59	LTST-T680KFWT.....	69		
LTST-S110KSKT.....	59	LTST-T680KGWT.....	69	LTV-0314.....	259
LTST-S110TBKT.....	59	LTST-T680KRWT.....	69		
LTST-S110TGKT.....	59	LTST-T680KSWT.....	69	LTV-314P.....	259
		LTST-T680QEW.....	69	LTV-314W.....	259
LTST-S115KGJRKT.....	61	LTST-T680QSWT.....	69	LTV-340P.....	259
LTST-S115KGKFKT.....	61	LTST-T680TGWT.....	69	LTV-340W.....	259
LTST-S115TGKFKT.....	61	LTST-T680UBWT.....	69	LTV-341P.....	259
		LTST-T680UGWT.....	69	LTV-341W.....	259
LTST-S220KFKT.....	59	LTST-T680UWET.....	69		
LTST-S220KGKT.....	59	LTST-T680VEWT.....	69	LTV-352T.....	253
LTST-S220KRKT.....	59	LTST-T680VSWT.....	69	LTV-354T.....	250
LTST-S220KSKT.....	59			LTV-355T.....	252
LTST-S220TBKT.....	59	LTV-50LP.....	255	LTV-356T.....	250
LTST-S220TGKT.....	59	LTV-50LW.....	255	LTV-357T.....	250
				LTV-358T.....	250
LTST-S270KFKT.....	58	LTV-053L.....	255		
LTST-S270KGKT.....	58			LTV-0456.....	262
LTST-S270KRKT.....	58	LTV-60LP.....	256		
LTST-S270KSKT.....	58	LTV-60LW.....	256	LTV-456P.....	262
LTST-S270TBKT.....	58			LTV-456W.....	262
LTST-S270TGKT.....	58	LTV-063L.....	256		
				LTV-0480.....	261
LTST-S310F3WT.....	64	LTV-70LP.....	256		
		LTV-70LW.....	256	LTV-480P.....	261
LTST-S320KFKT.....	60			LTV-480W.....	261
LTST-S320KGKT.....	60	LTV-071L.....	256		
LTST-S320KRKT.....	60	LTV-073L.....	257	LTV-0481.....	261
LTST-S320KSKT.....	60	LTV-074L.....	256		
LTST-S320TBKT.....	60			LTV-481P.....	261
LTST-S320TGKT.....	60	LTV-152.....	258	LTV-481W.....	261
		LTV-155E.....	258		
LTST-S326KGJRKT.....	61			LTV-0501.....	255
LTST-S326KGKFKT.....	61	LTV-200.....	250	LTV-0601.....	256
LTST-S326TBKSKT.....	61	LTV-205.....	250	LTV-0701.....	257
		LTV-206.....	250		
LTST-S327KGJRKT.....	62	LTV-207.....	250	LTV-702F.....	251
LTST-S327KGJSKT.....	62	LTV-208.....	250	LTV-702V.....	251
LTST-S327TBKFKT.....	62	LTV-214.....	249	LTV-715F.....	253

LTV-725F.....	253	LTV-3052.....	254	LTW4HMDVAJS.....	179
LTV-725V.....	253	LTV-3063.....	254	LTW4VMDV5JS.....	180
LTV-733.....	249	LTV-3083.....	254		
				LTW5H3DVAJS.....	182
LTV-814.....	249	LTV-3120.....	258	LTW5L3DW7JS.....	182
LTV-815.....	252	LTV-3150.....	258		
LTV-816.....	251	LTV-3150-L.....	258	LTW-006DCG-E2.....	78
LTV-817.....	251	LTV-3180.....	258	LTW-008RGB2-PH1.....	81
LTV-824.....	249			LTW-008ZDCG.....	79
LTV-825.....	252	LTV-4506.....	262	LTW-010DCG.....	77
LTV-826.....	251	LTV-4800.....	262	LTW-010DCG-TR.....	77
LTV-827.....	251	LTV-4800-7.....	262	LTW-010SCB.....	77
LTV-844.....	249	LTV-4801.....	262	LTW-010SCG.....	77
LTV-845.....	252			LTW-010SCR.....	77
LTV-846.....	251	LTV-8141.....	253	LTW-010SCSK.....	77
LTV-847.....	251	LTV-8241.....	253	LTW-010SCVL.....	77
LTV-851.....	251	LTV-8441.....	253		
LTV-852.....	253			LTW-17HDU6J.....	87
		LTV-M456.....	262	LTW-17HDW5J.....	87
LTV-1000.....	250	LTV-M480.....	261	LTW-17HDY4.....	87
LTV-1001.....	250	LTV-M481.....	261	LTW-17KDU4Z.....	84
LTV-1002.....	250	LTV-M501.....	255		
LTV-1003.....	250	LTV-M601.....	256	LTW-020ZDCG.....	78
LTV-1004.....	250	LTV-M701.....	257		
LTV-1005.....	250			LTW-21TS5.....	49
LTV-1006.....	250	LTV-T350.....	258		
LTV-1007.....	250			LTW-42NDH8JH227.....	91
LTV-1008.....	250	LTW-1BEEDNJZ.....	86	LTW-42NDH8JH229.....	93
LTV-1009.....	250	LTW-1BETBKJLC.....	86	LTW-42NDP4.....	85
LTV-1010.....	250			LTW-42NDP4H218.....	90
LTV-1014.....	250	LTW-1CHDS4.....	83		
LTV-1018.....	250	LTW-1GHCV4.....	83	LTW-87HD4BSZ.....	83
LTV-1019.....	250				
		LTW-1NHDR5JH231.....	91	LTW-108SEG-W.....	79
LTV-1100.....	251	LTW-1NHDR7JW.....	83	LTW-110TS5.....	59
LTV-1101.....	251	LTW-1NHDY2.....	83	LTW-150ZDS5.....	45
LTV-1102.....	251			LTW-170ZDC.....	45
LTV-1103.....	251	LTW-2H3D51K.....	88	LTW-198ZDS5.....	41
LTV-1104.....	251	LTW-2L3DV5.....	87		
LTV-1105.....	251	LTW-2P3D52K.....	88	LTW-206DCG-TM.....	78
LTV-1106.....	251	LTW-2R3D43K.....	88	LTW-206DCG-TMS.....	78
LTV-1107.....	251	LTW-2S3D8.....	87	LTW-206KRKT.....	78
LTV-1108.....	251	LTW-2S3D8-CY.....	181	LTW-206VFKT-PX.....	78
LTV-1109.....	251	LTW-2V3D13JS.....	181		
		LTW-2V3DS3.....	87	LTW-216TS5.....	49
LTV-3023.....	254	LTW-2W3DRA.....	87		

Alphanumeric Index

LTW-270TLA	58	LTW-5630AQL27	187	LTW-C9301DS5.....	48
LTW-295DSKS-5A.....	50	LTW-5630AQL30	187	LTW-C9501DS5.....	48
		LTW-5630AQL40	187		
LTW-303DCG-KB	76	LTW-5630AQL50	187	LTW-K140BS470	66
LTW-326DSKF-5A.....	61	LTW-5630AQL57	187	LTW-K140GS525.....	66
LTW-327DSKF-5A.....	62	LTW-5630AQL65	187	LTW-K140OS607	66
				LTW-K140RS625	66
LTW-670BS470.....	69	LTW-5630AZL27-EUH.....	187	LTW-K140SCGD	66
LTW-670DS-EL	69	LTW-5630AZL30-EUH.....	187	LTW-K140SCIB.....	66
LTW-670GS525	69	LTW-5630AZL40-EUH.....	187	LTW-K140SCSK	66
LTW-670OS607	69	LTW-5630AZL50-EUH.....	187	LTW-K140SCTF	66
LTW-670RS625.....	69	LTW-5630AZL57-EUH.....	187	LTW-K140SCVL	66
LTW-670YS587	69	LTW-5630AZL65-EUH.....	187		
				LTW-K140SXR85.....	185
LTW-2835AZH27	186	LTW-5630SD458.....	187	LTW-K140SZR27-EU	185
LTW-2835AZH30	186	LTW-5630SD470.....	187	LTW-K140SZR30-EU	185
LTW-2835AZH40	186	LTW-5630SD530.....	187	LTW-K140SZR40-EU	185
LTW-2835AZH50	186	LTW-5630SD590.....	187	LTW-K140SZR50-EU	185
LTW-2835AZH57	186	LTW-5630SD630.....	187	LTW-K140SZR57-EU	185
LTW-2835AZH65	186	LTW-5630SP660	187	LTW-K140SZR65-EU	185
LTW-2835AZI27	186	LTW-5630SP730	187		
LTW-2835AZI30	186	LTW-5630SP750	187	LTW-K140YS587	66
LTW-2835AZI40	186				
LTW-2835AZI50	186	LTW-9301ZDS5	48	LTW-M140ZVS	67
LTW-2835AZI57	186	LTW-9501ZDS5	48	LTW-M670ZVS-M5.....	68
LTW-2835AZI65	186				
LTW-2835AZL27	186	LTW-C19DZDS5.....	44	LTW-Q35ZRGB	74
LTW-2835AZL30	186	LTW-C190DA5.....	43	LTW-R4MLDGDJH234	89
LTW-2835AZL40	186	LTW-C191TS5	43		
LTW-2835AZL50	186	LTW-C193TS5	42	LTW-S115KFDS-5A	61
LTW-2835AZL57	186	LTW-C194TS5	42	LTW-S221DS	59
LTW-2835AZL65	186	LTW-C195DSKS-5A.....	51	LTW-S321ZDS5	60
				LTW-S482DS5.....	58
LTW-2835SZK27	186	LTW-C230DS.....	47	LTW-S850DC5	60
LTW-2835SZK30	186	LTW-C231DS.....	46		
LTW-2835SZK40	186	LTW-C235DSKF-5A.....	53	MOC3023.....	254
LTW-2835SZK50	186			MOC3052-H.....	254
LTW-2835SZK57	186	LTW-C250DC5.....	46	MOC3052-L.....	254
LTW-2835SZK65	186	LTW-C255DCKF-5A	53	MOC3063.....	254
				MOC3083.....	254
LTW-2835TZN27	186	LTW-C281DS5	41		
LTW-2835TZN30	186	LTW-C283DS5	40		
LTW-2835TZN40	186	LTW-C285DSKG-5A	50		
LTW-2835TZN50	186				
LTW-2835TZN57	186	LTW-C371US5	40		
LTW-2835TZN65	186				

Products & Solutions





Products & Solutions in Mobile & Wearable Devices

Environmental Monitoring

UV Detector

Health Care

Heart Rate Monitor / Pulse oximetry

Status Display

Indicator



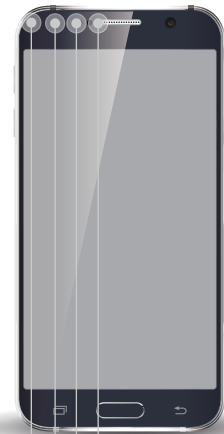
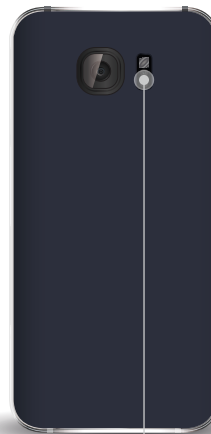
UV sensor



Health Sensor



SMD LED



Camera Flash

Illumination

Entertainment

Remote Control

Smart Adjusting

Detect Object Presence Turn On/Off Screen
Screen Brightness/Color Temperature Adjusting



Flash LED



Infrared LED



Proximity Sensor



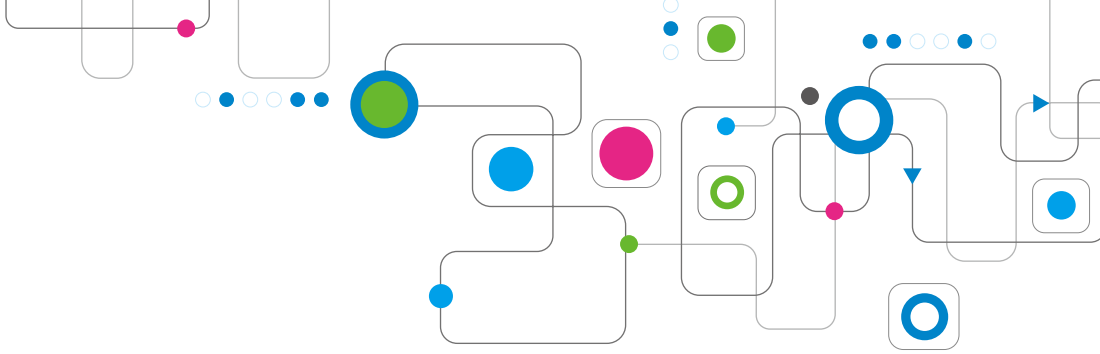
Ambient Light Sensor



RGB Sensor



Integrated Sensor (PS+ALS+IR)



Positioning

Position Tracking & Mapping



Infrared LED



Photodiode



SMD LED



Convenient

Gesture Recognition

Security

Iris Recognition



Gesture Sensor

Infrared LED





Products & Solutions in Smart Home & Appliances

Isolation

Power Supply

Power Management

Power Source

Isolation

Communication Isolation



Photocoupler



Photocoupler



Photocoupler



Obstacle Avoidance

Object Detecting



Smart Switch

Touchless Light Switch

Program Selecting

Detect Color (of Clothes)



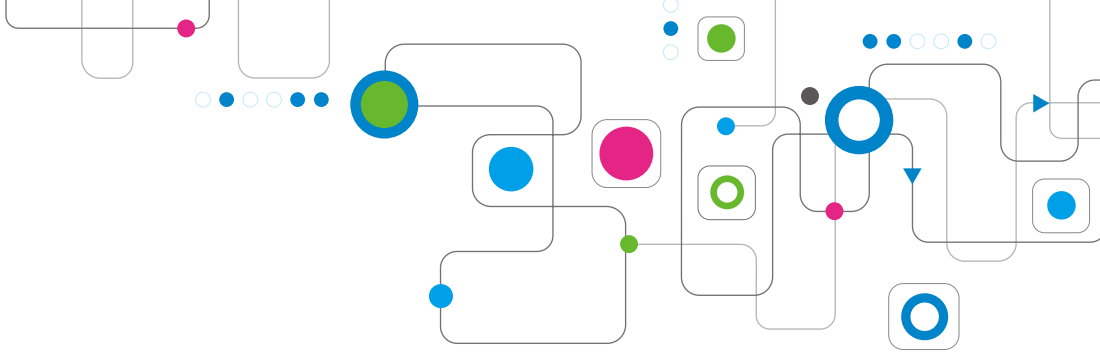
Infrared Emitter & Detector



Proximity Sensor



RGB Sensor



Status Display

Indicator



SMD LED



LED Display



LAMP



Isolation

Inverter / Motor Control

Convenient

Remote Control



Photocoupler



Infrared Emitter



Products & Solutions in Automotive

CHMSL



Piranha



PLCC Top View LED

Side Turn Indicator



PLCC 4/6 Top View LED



RCL (Rear Combination Light)



PLCC 4/6 Top View LED

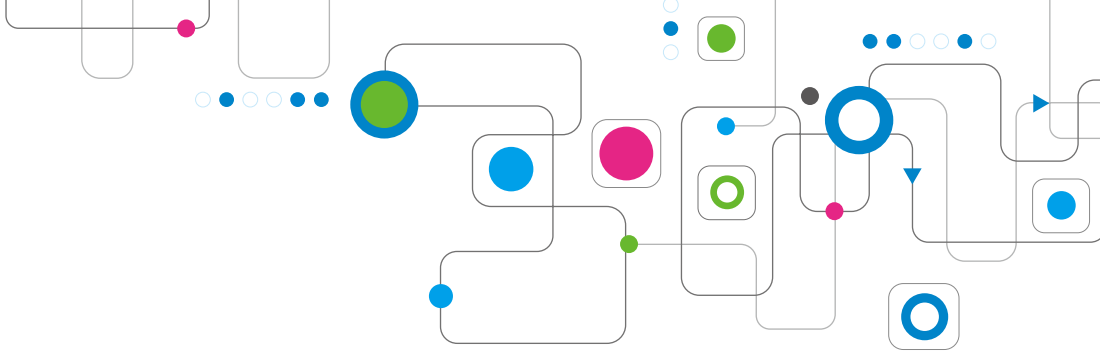


High Power LED

Light Sensing



Ambient Light Sensor



**Headlight
(High/Low Beam)**

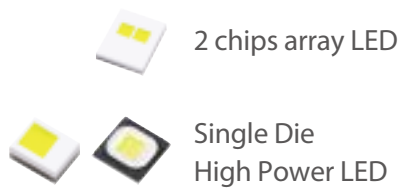
**Daytime Running
Light / Front Position**



Decorative/ Ambient Light
Dashboard Lights
Interior Lighting/ Reading Light

Front Fog Light

Interior Lighting





Products & Solutions in Industrial

Protection

Isolation



Photocoupler



Status Display

Status Display



SMD LED



High Power LED

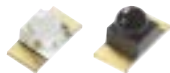


LED Display

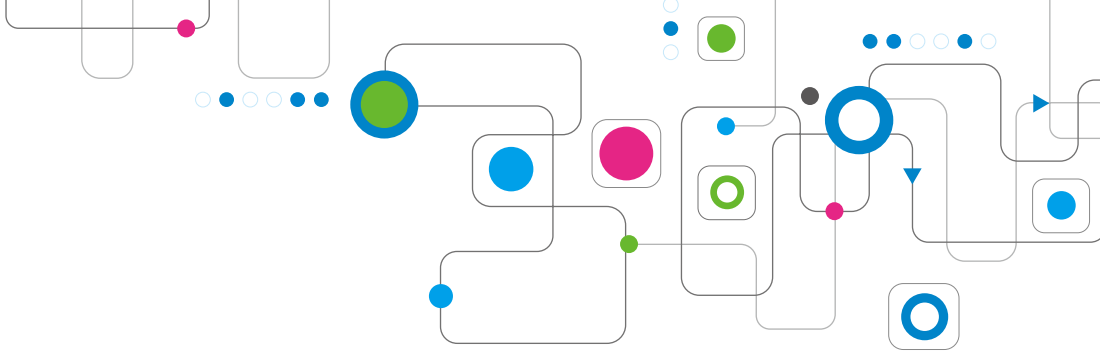


Safety Guards

Object Detecting



Infrared Emitter and Detector



Isolation

Signal Isolation



Isolation

Inverter / Motor Control



Transmission

Data Communication





Products & Solutions in Surveillance & Security

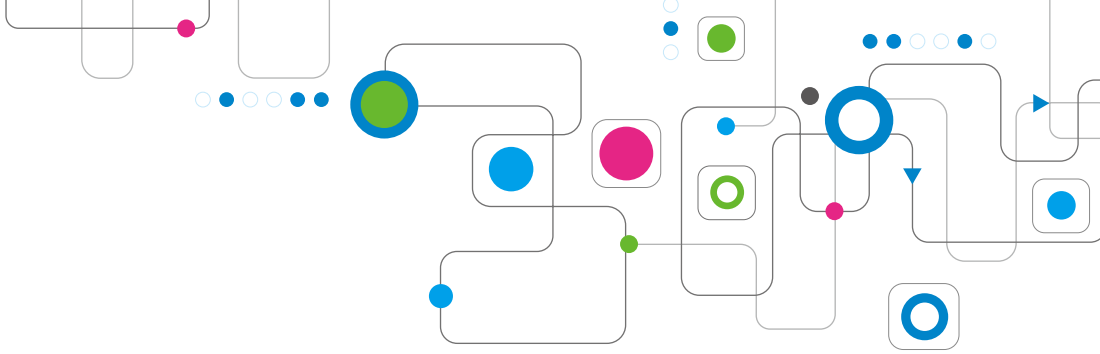


Night Vision Assistance

Illumination



Infrared LED



Status Display

Indicator

Smart Switch

Touchless Light Switch



SMD LED



Proximity Sensor



Detection

Detecting Particles

Security

Facial & Iris Recognition



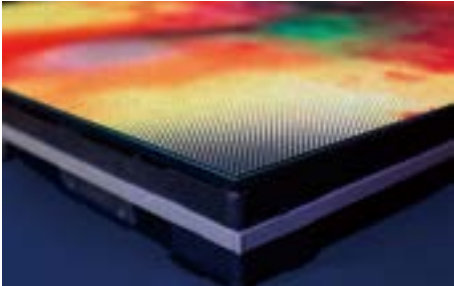
IR Emitter
& Detector

Infrared LED





Products & Solutions in Signage & Street Lighting



Indoor

P2.5

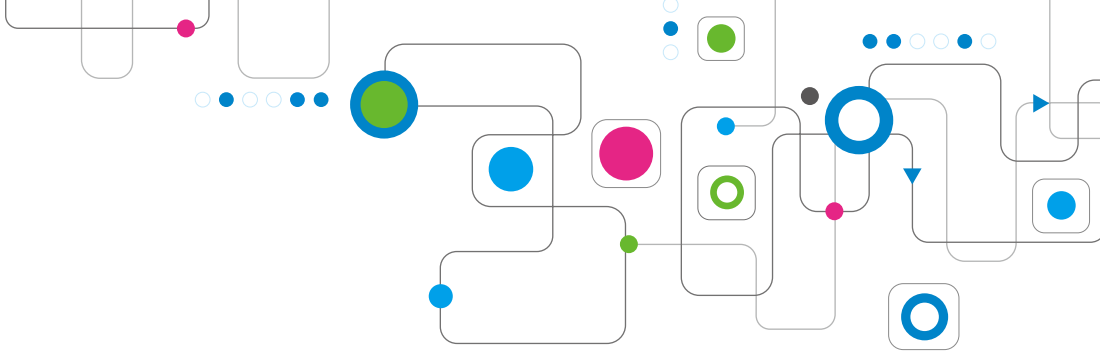
Fine Pitch

SMD Chip LED



SMD LED PLCC 2/4/6





Outdoor



P12

Pure outdoor

Through Hole Lamp



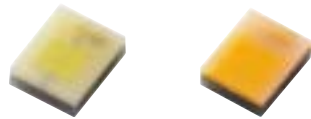
High Power White LED



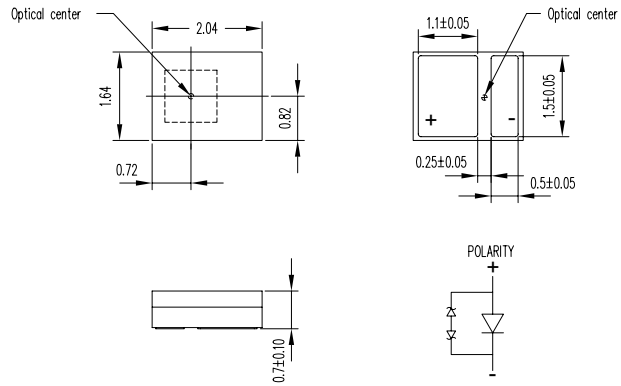


| Flash LED

Flash LED_2016 Package



2.0 x 1.6 x 0.7 mm



Part No.	Correlated color temperature (K)	CRI	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f^* (mA)	Thermal Resistance $R_{th(j-s)}$ (°C/W)	Peak Pulsed Forward Current I_f^{**} (mA)	Max. Junction Temperature T_j (°C)	Operating Temperature Range (°C)
LTPL-C0678WPYB	5000~6000K	NCRI	320	120	3.4	1000	3	1500	125	-40~85
LTPL-C0677WPYB	5000~6000K	NCRI	300	120	3.4	1000	4	1500	125	-40~85
LTPL-C0675WPYB	5000~6000K	NCRI	260	120	3.4	1000	7	1500	125	-40~85
LTPL-C0673WPYB	5000~6000K	NCRI	240	120	3.4	1000	8	1500	125	-40~85
LTPL-C0677WPRB	2000~2500K	NCRI	230	120	3.4	1000	5	1500	125	-40~85
LTPL-C0675WPRB	2000~2500K	NCRI	200	120	3.4	1000	8	1500	125	-40~85
LTPL-C0677WPGb	5000~6000K	80	270	120	3.4	1000	4	1500	125	-40~85
LTPL-C0675WPGb	5000~6000K	80	220	120	3.4	1000	7	1500	125	-40~85
LTPL-C0677WPHb	5000~6000K	90	240	120	3.4	1000	3	1500	125	-40~85

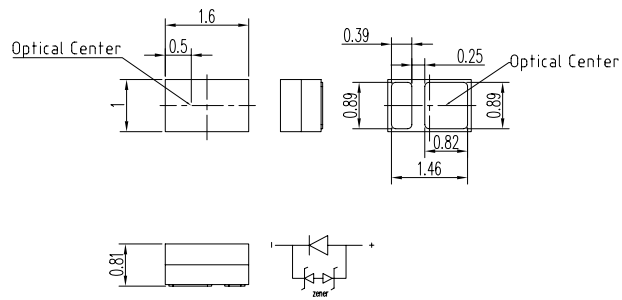
* Electro-optical testing conducted in single pulse mode, $T_{ON}=300ms$, $I_f=1000mA$

** Peak pulsed forward current applies to 50ms: on, 950ms: Off, D: 0.05

Flash LED_1610 Package



1.6 x 1.0 x 0.81 mm



Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f^* (mA)	Thermal Resistance $R_{th(j-s)}$ (°C/W)	Peak Pulsed Forward Current I_f^{**} (mA)	Max. Junction Temperature T_j (°C)	Operating Temperature Range (°C)
LTPL-C095WPGE	4500~5500	80	120	3.1	350	10	1000	125	-40~85
LTPL-C095WPYB	5000~6000	220	120	3.4	1000	10	1000	125	-40~85
LTPL-C095WPRB	2000~2500	180	120	3.4	1000	10	1000	125	-40~85

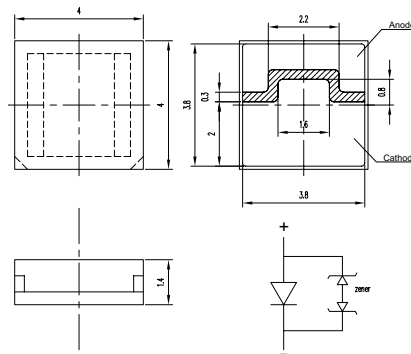
* Electro-optical testing conducted in single pulse mode, $T_{ON}=300ms$, $I_f=1000mA$

** Peak pulsed forward current applies to 400ms: on, 3600ms: Off, D: 0.1

Flash LED_Module Type



4.0 x 4.0 x 1.4 mm



Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f^* (mA)	Thermal Resistance $R_{th(j-s)}$ (°C/W)	Peak Pulsed Forward Current I_f^{**} (mA)	Max. Junction Temperature T_j (°C)	Operating Temperature Range (°C)
LTPL-C0685WCGB	4500~6000K	200	75/55	3.5	1000	15	1500	140	-40~85

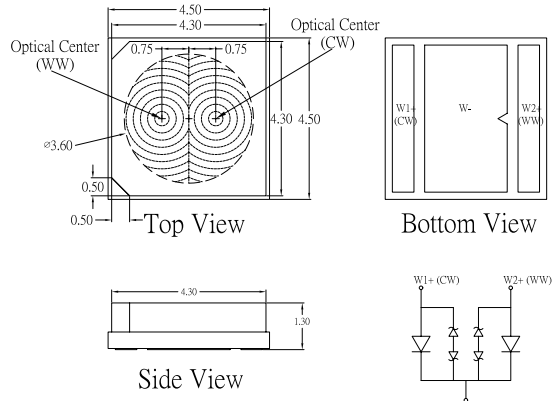
* Electro-optical testing conducted in single pulse mode, $T_{ON}=300ms$, $I_f=1000mA$

** Peak pulsed forward current applies to 50ms: on, 950ms: Off, D: 0.05

Flash LED_Module Type



4.5 x 4.5 x 1.3 mm

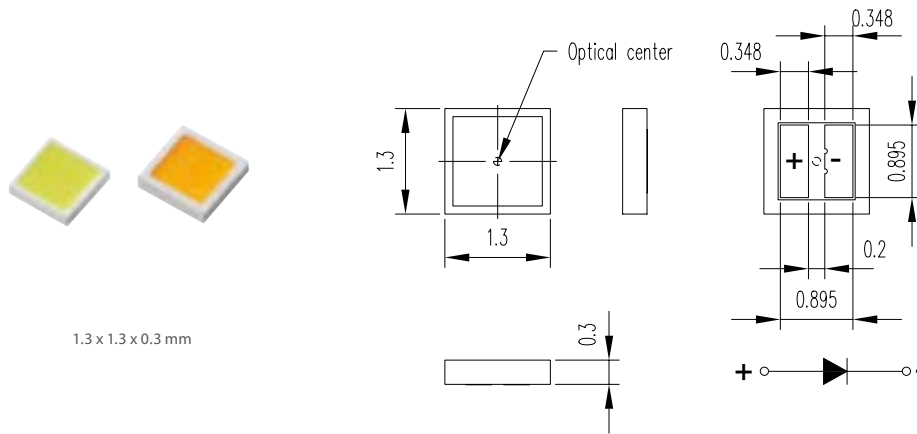


Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F^* (mA)	Thermal Resistance $R_{th(j-s)}$ ($^{\circ}C/W$)	Peak Pulsed Forward Current I_F^{**} (mA)	Max. Junction Temperature T_j ($^{\circ}C$)	Operating Temperature Range ($^{\circ}C$)
LTPL-C0695DAYD	5000~6000K	210	83	3.4	1000	10	1500	140	-40~85
	2000~2500K	160							

* Electro-optical testing conducted in single pulse mode, $T_{ON}=300ms$, $I_F=1000mA$

** Peak pulsed forward current applies to 50ms:on, 950ms: Off, D: 0.05

Flash LED_CSP Type



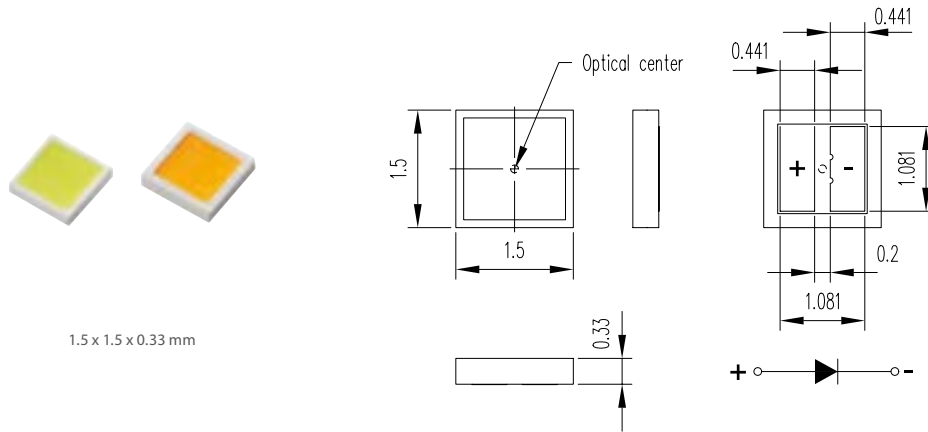
1.3 x 1.3 x 0.3 mm

Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F^* (mA)	Thermal Resistance $R_{th(j-s)}$ ($^{\circ}C/W$)	Peak Pulsed Forward Current I_F^{**} (mA)	Max. Junction Temperature T_J ($^{\circ}C$)	Operating Temperature Range ($^{\circ}C$)
LTPL-A136DWAYB	5000~6000K	270	120	3.4	1000	2.4	1500	125	-40~85
LTPL-A133DWARB	2000~2500K	190	120	3.4	1000	2.4	1500	125	-40~85

* Electro-optical testing conducted in single pulse mode, $T_{ON}=300ms$, $I_F=1000mA$

** Peak pulsed forward current applies to 400ms: on, 3600ms: Off, D: 0.1

Flash LED_CSP Type



Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F^* (mA)	Thermal Resistance $R_{th(j-s)}$ ($^{\circ}C/W$)	Peak Pulsed Forward Current I_F^{**} (mA)	Max. Junction Temperature T_j ($^{\circ}C$)	Operating Temperature Range ($^{\circ}C$)
LTPL-A157DWFYB	5000~6000K	300	120	3.4	1000	2	1500	125	'-40~85
LTPL-A155DWFWB	2000~2500K	240	120	3.4	1000	2	1500	125	'-40~85

* Electro-optical testing conducted in single pulse mode, $T_{ON}=300ms$, $I_F=1000mA$

** Peak pulsed forward current applies to 400ms: on, 3600ms: Off, D: 0.1

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and Detector

Optical Sensors

Photocoupler

UV LED

SMD LED

SMD Product Quick View Table

Chip LED_Top view

Color	Single color								
Product Type	General						Reverse Mount		
Dimension (mm)	0.6x0.3	1.0x0.8	1.6x0.8	1.6x0.9	2.0x1.25	2.0x1.25	3.2x0.8	3.2x1.2	3.2x1.6
2.4t									
1.85t									
1.1t					C170	C150			C230
0.98t									
0.85t									
0.8t			C190		C171			C250	
0.75t				C19D					
0.7t							C231		
0.65t									
0.6t									
0.55t			C191						
0.5t									
0.4t									
0.35t	C371	C281	C193						
0.3t			C194						
0.2t		C283	C198						

I= individual Circuit A=Common Anode C=Common Cathode * Please refer to Signage LED

Color	Single color				Dual Color						Multi Color				
	Product Type	Dome Lens		Inner Lens	General				Reverse Mount	General					
Dimension (mm)	1.6x0.8	3.2x1.6	3.2x2.4	3.2x1.6	1.0x0.5	1.6x0.8	1.6x1.25	1.6x1.5	3.2x2.7	3.2x1.2	3.2x1.6	0.8x0.8	1.0x1.0	1.6x1.6	1.6x2.1
2.4t				C930											
1.85t				C950											
1.1t									C155		C235				
0.98t	C990														
0.85t															
0.8t										C255					
0.75t															
0.7t									C197						
0.65t												*B68J (A)	*B32J (A)		
0.6t				C216											
0.55t						C295	C395	C195							C19F (A)
0.5t													B28J (A)	C19J C19M (I)	
0.4t															C19G (A)
0.35t						C285									C19H (A) C19K (I)
0.3t															
0.2t															C28N

I= individual Circuit A=Common Anode C=Common Cathode * Please refer to Signage LED

SMD Product Quick View Table

Chip LED_Side View

Color	Single Color					Dual Color			Multi Color		
Product Type	General					Reflector	General		General		
Dimension (mm)	1.6x1.15	1.8x1.0	2.1x1.0	3.2x1.5	3.2x2.0	1.4x0.8	3.2x1.5	3.2x2.0	3.0x1.0	3.2x1.5	3.2x2.0
1.0t				S110	S320		S115(A)	S326(A) S327(C)		S310(A) S311(C)	S32F(A)
0.6t	S270		S220						S33G(A)		
0.5t											
0.4t						S850			S33F(A) S43F(C)		
0.3t		S482									

A=Common Anode C=Common Cathode

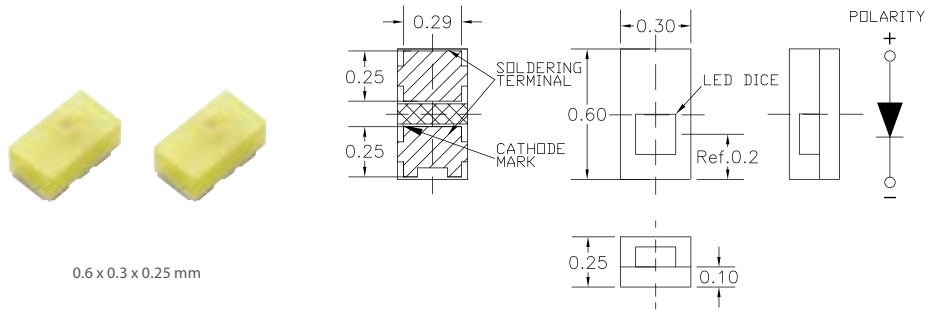
PLCC_Top View

Color	Single Color							Dual Color		Multi Color				
Dimension (mm)	2.0x1.6	2.3x1.4	2.7x1.4	3.0x1.4	3.0x2.0	3.5x2.8	5.6x3.0	6.2x2.8	3.5x2.8	3.5x2.8	3.5x3.2	5.4x5.0	6.2x2.8	7.4x5.0
1.9t						T680/670 (PLCC2) E680 (PLCC4)	F680	E682					A683	
1.6t												G563		
1.3t		M230			M670					G683				P033
1.2t				M140										
0.9t							5630							
0.8t			K140											
0.65t											Q35			
0.55t	C0610													
0.3t														

PLCC_Side View

Color	Single Color				Dual Color		Multi Color	
Dimension (mm)	2.8x1.2	3.0x0.85	3.8x1.0	3.8x1.2	4.5x1.25	4.5x1.0	4.5x1.25	
0.8t	108 008					008	008	
0.6t			206	020 006			006	
0.4t			010					
0.35t		303						

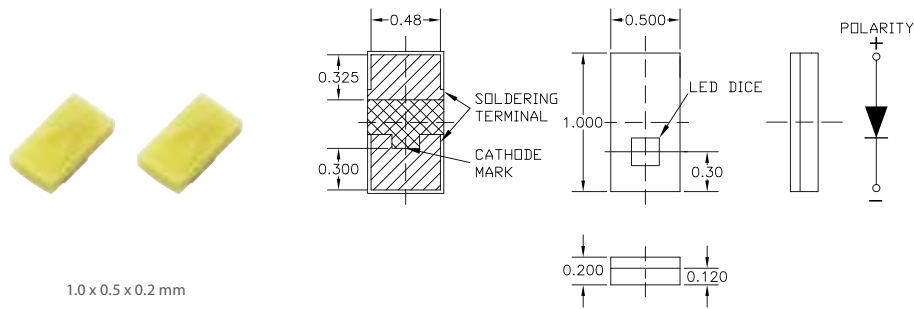
Chip LED_Top View



0.6 x 0.3 x 0.25 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C371KRKT	■ Red	631	60	130	2.0	20
LTST-C371KFKT	■ Orange	605	90	130	2.0	20
LTST-C371KSKT	■ Yellow	589	50	130	2.0	20
LTST-C371KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-C371JGKT	■ True Green	525	150	130	3.3	20
LTST-C371JBKT	■ Blue	470	50	130	3.3	20
LTW-C371USS	■ White	(0.304, 0.301)	112	130	2.9	5

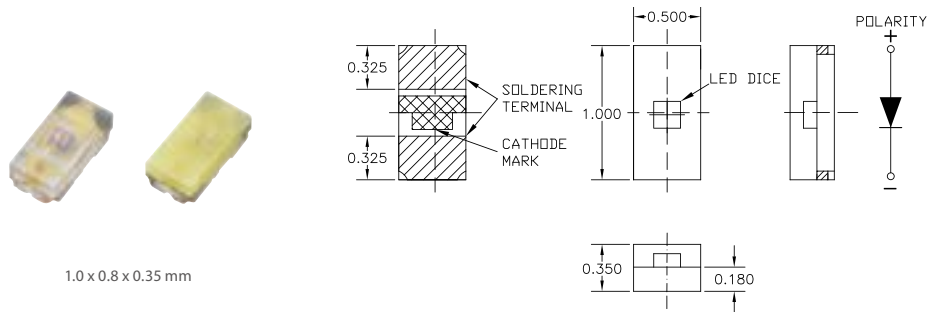
Chip LED_Top View



1.0 x 0.5 x 0.2 mm

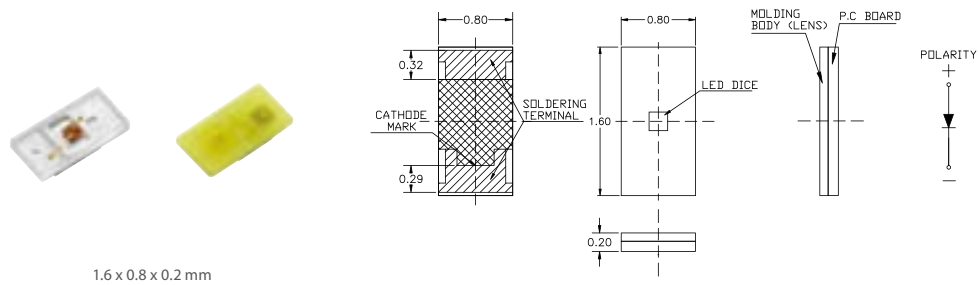
Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C283KRKT-5A	■ Red	631	60	130	2.0	5
LTST-C283KFKT-5A	■ Orange	605	90	130	2.0	5
LTST-C283KSKT-5A	■ Yellow	589	50	130	2.0	5
LTST-C283KGKT-5A	■ Yellow Green	571	35	130	2.0	5
LTST-C283TGKT-5A	■ True Green	525	150	130	2.9	5
LTST-C283TBKT-5A	■ Blue	470	50	130	2.9	5
LTW-C283DS5	■ White	(0.304, 0.301)	112	130	2.9	5

Chip LED_Top View



Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C281KRKT-5A	■ Red	631	11.2	130	1.9	5
LTST-C281KFKT-5A	■ Orange	605	28	130	1.9	5
LTST-C281KSKT-5A	■ Yellow	589	18	130	1.9	5
LTST-C281KGKT-5A	■ Yellow Green	571	7.1	130	1.9	5
LTST-C281TGKT-5A	■ True Green	525	71	130	2.9	5
LTST-C281TBKT-5A	■ Blue	470	28	130	2.9	5
LTW-C281DS5	■ White	(0.304, 0.301)	112	130	2.9	5

Chip LED_Top View

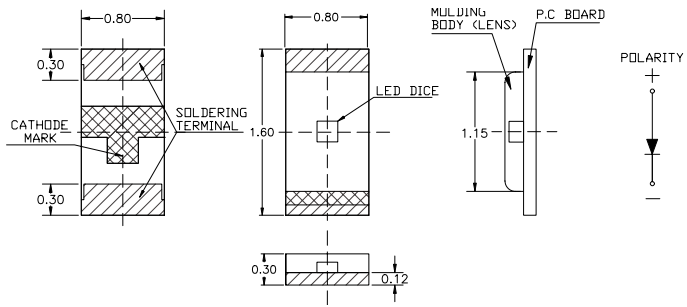


Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C198KRKT	■ Red	631	60	130	2.0	20
LTST-C198KFKT	■ Orange	605	90	130	2.0	20
LTST-C198KSKT	■ Yellow	589	50	130	2.0	20
LTST-C198KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-C198TGKT	■ True Green	525	150	130	3.3	20
LTST-C198TBKT	■ Blue	470	50	130	3.3	20
LTW-198ZDS5	■ White	(0.31, 0.33)	180	130	2.9	5

Chip LED_Top View



1.6 x 0.8 x 0.3 mm

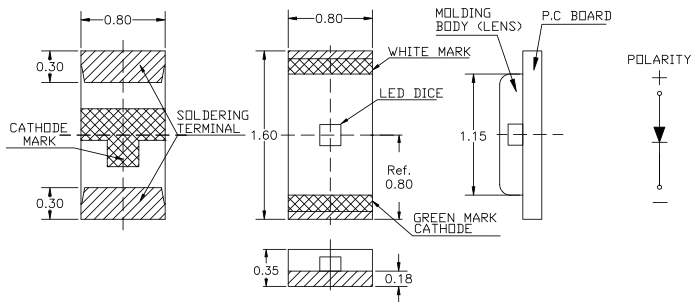


Part No.	Color	$\lambda_d(\text{nm})/\text{CIE}(x,y)$	Typ. Luminous Intensity $I_v(\text{mcd})$	View Angle $2\theta_{1/2}$	Typ. Forward Voltage $V_f(\text{V})$	Forward Current $I_f(\text{mA})$
LTST-C194KRKT	■ Red	631	60	130	2.0	20
LTST-C194KFKT	■ Orange	605	90	130	2.0	20
LTST-C194KSKT	■ Yellow	589	50	130	2.0	20
LTST-C194KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-C194TGKT	■ True Green	525	150	130	3.3	20
LTST-C194TBKT	■ Blue	470	50	130	3.3	20
LTW-C194TS5	■ White	(0.294, 0.286)	100	130	2.9	5

Chip LED_Top View



1.6 x 0.8 x 0.35 mm

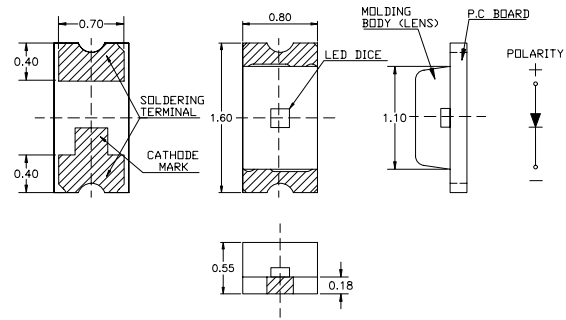


Part No.	Color	$\lambda_d(\text{nm})/\text{CIE}(x,y)$	Typ. Luminous Intensity $I_v(\text{mcd})$	View Angle $2\theta_{1/2}$	Typ. Forward Voltage $V_f(\text{V})$	Forward Current $I_f(\text{mA})$
LTST-C193KRKT-5A	■ Red	631	11.2	130	1.9	5
LTST-C193KFKT-5A	■ Orange	605	28	130	1.9	5
LTST-C193KSKT-5A	■ Yellow	589	18	130	1.9	5
LTST-C193KGKT-5A	■ Yellow Green	571	7.1	130	1.9	5
LTST-C193TGKT-5A	■ True Green	525	71	130	2.9	5
LTST-C193TBKT-5A	■ Blue	470	15	130	2.9	5
LTW-C193TS5	■ White	(0.294, 0.286)	112	130	2.9	5

Chip LED_Top View

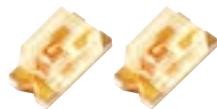


1.6 x 0.8 x 0.55 mm

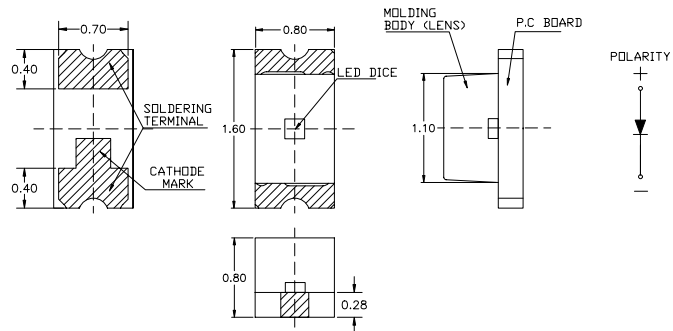


Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C191KRKT	■ Red	631	60	130	2.0	20
LTST-C191KFKT	■ Orange	605	90	130	2.0	20
LTST-C191KSKT	■ Yellow	589	50	130	2.0	20
LTST-C191KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-C191TGKT	■ True Green	525	150	130	3.3	20
LTST-C191TBKT	■ Blue	470	50	130	3.3	20
LTW-C191TSS	■ White	(0.294, 0.286)	112	130	2.9	5

Chip LED_Top View

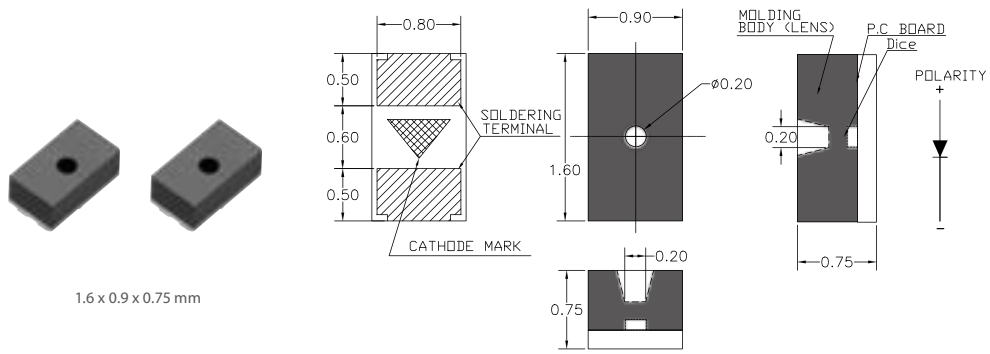


1.6 x 0.8 x 0.8 mm



Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C190KRKT	■ Red	631	60	130	2.0	20
LTST-C190KFKT	■ Orange	605	90	130	2.0	20
LTST-C190KSKT	■ Yellow	589	50	130	2.0	20
LTST-C190KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-C190TGKT	■ True Green	525	150	130	3.3	20
LTST-C190TBKT	■ Blue	470	50	130	3.3	20
LTW-C190DA5	■ White	(0.203, 0.319)	112	130	2.9	5

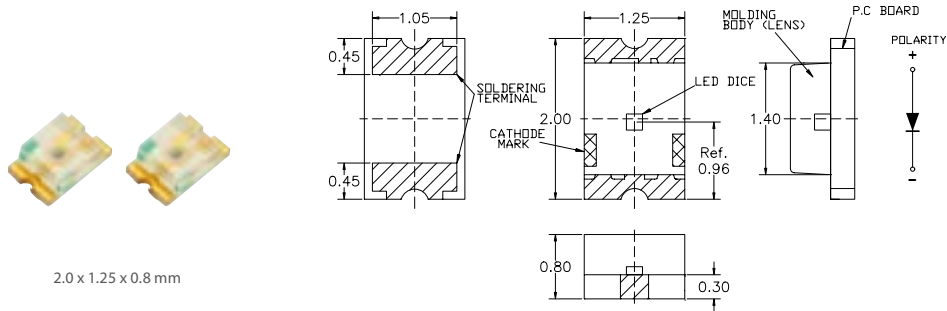
Chip LED_Top View



1.6 x 0.9 x 0.75 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C19DKRKT	■ Red	631	18	50	2.0	20
LTST-C19DKFKT	■ Orange	605	16	50	2.0	20
LTST-C19DKSKT	■ Yellow	589	18	50	2.0	20
LTST-C19DTGKT	■ True Green	525	100	50	2.8	20
LTW-C19DZDS5	■ White	(0.27, 0.26)	30	50	2.8	5

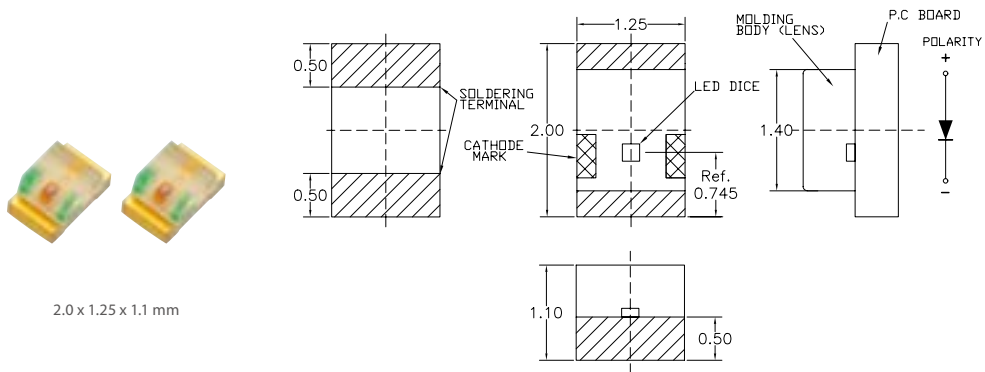
Chip LED_Top View



2.0 x 1.25 x 0.8 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C171KRKT	■ Red	631	60	130	2.0	20
LTST-C171KFKT	■ Orange	605	90	130	2.0	20
LTST-C171KSKT	■ Yellow	589	50	130	2.0	20
LTST-C171KKGKT	■ Yellow Green	571	35	130	2.0	20
LTST-C171TGKT	■ True Green	525	180	130	3.3	20
LTST-C171TBKT	■ Blue	470	50	130	3.3	20

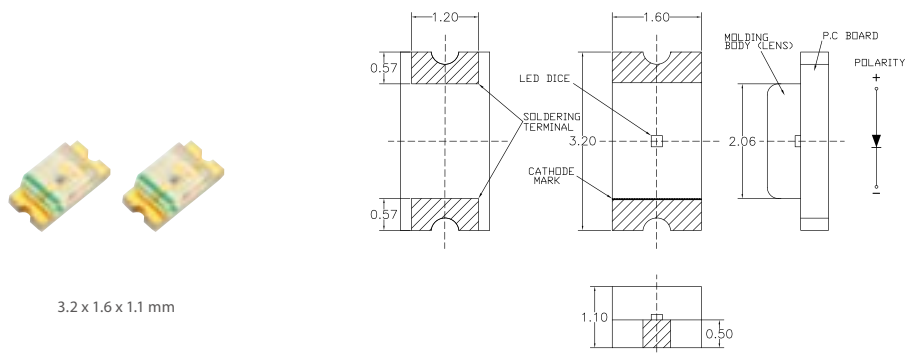
Chip LED_Top View



2.0 x 1.25 x 1.1 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C170KRKT	■ Red	631	60	130	2.0	20
LTST-C170KFKT	■ Orange	605	90	130	2.0	20
LTST-C170KSKT	■ Yellow	589	50	130	2.0	20
LTST-C170KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-C170TGKT	■ True Green	525	180	130	3.3	20
LTST-C170TBKT	■ Blue	470	50	130	3.3	20
LTW-170ZDC	■ White	(0.30, 0.30)	280	130	3.3	20

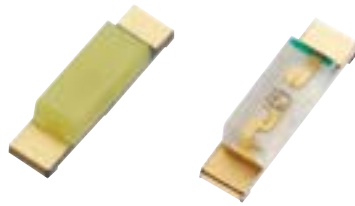
Chip LED_Top View



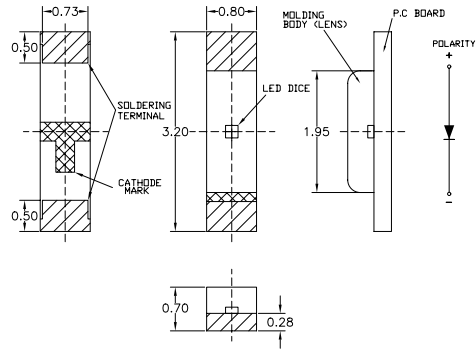
3.2 x 1.6 x 1.1 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C150KRKT	■ Red	631	60	130	2.0	20
LTST-C150KFKT	■ Orange	605	90	130	2.0	20
LTST-C150KSKT	■ Yellow	589	50	130	2.0	20
LTST-C150KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-C150TGKT	■ True Green	525	150	130	3.3	20
LTST-C150TBKT	■ Blue	470	50	130	3.3	20
LTW-150ZDS5	■ White	(0.31, 0.32)	112	130	2.9	5

Chip LED_Top View_Reverse Mount

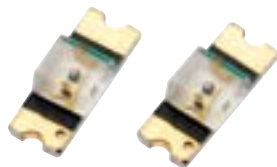


3.2 x 0.8 x 0.7 mm

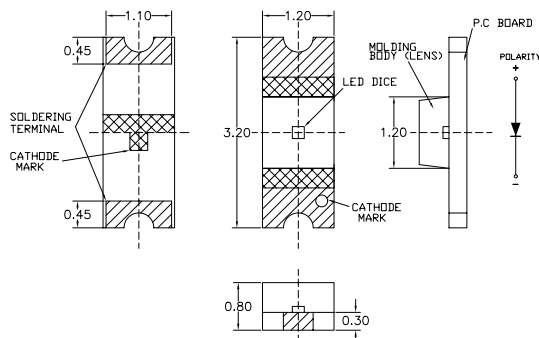


Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I _v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V _f (V)	Forward Current I _f (mA)
LTST-C231KRKT	■ Red	631	60	130	2.0	20
LTST-C231KFKT	■ Orange	605	90	130	2.0	20
LTST-C231KSKT	■ Yellow	589	50	130	2.0	20
LTST-C231KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-C231TGKT	■ True Green	525	150	130	3.3	20
LTST-C231TBKT	■ Blue	470	50	130	3.3	20
LTW-C231DS	■ White	(0.31, 0.32)	280	130	3.3	20

Chip LED_Top View_Reverse Mount

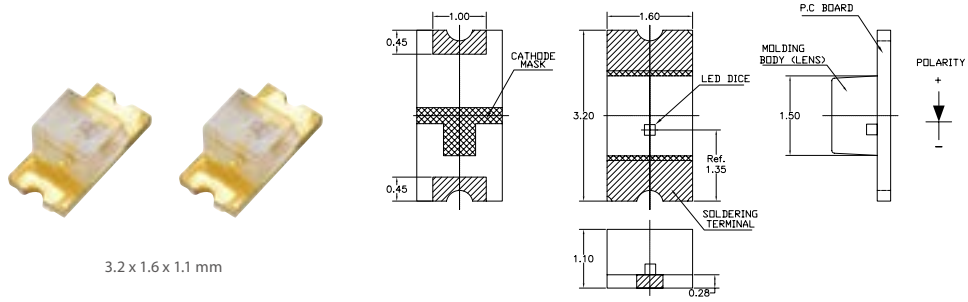


3.2 x 1.2 x 0.8 mm



Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I _v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V _f (V)	Forward Current I _f (mA)
LTST-C250KRKT	■ Red	631	60	130	2.0	20
LTST-C250KFKT	■ Orange	605	90	130	2.0	20
LTST-C250KSKT	■ Yellow	589	50	130	2.0	20
LTST-C250KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-C250TGKT	■ True Green	525	150	130	3.3	20
LTST-C250TBKT	■ Blue	470	50	130	3.3	20
LTW-C250DC5	■ White	(0.28, 0.27)	112	130	2.9	5

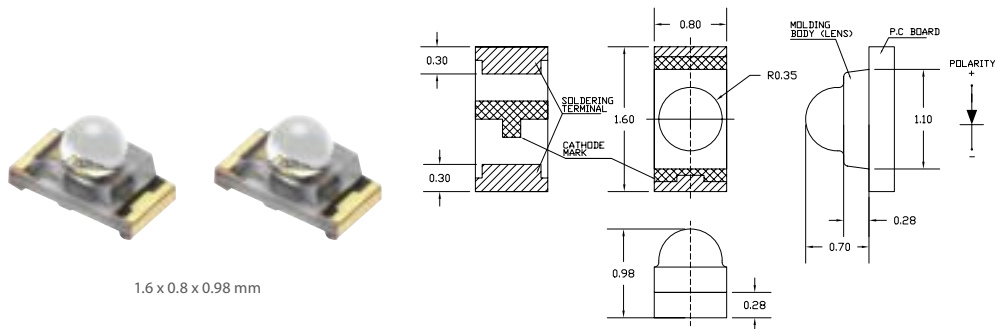
Chip LED_Top View_Reverse Mount



3.2 x 1.6 x 1.1 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C230KRKT	■ Red	631	60	130	2.0	20
LTST-C230KFKT	■ Orange	605	90	130	2.0	20
LTST-C230KSKT	■ Yellow	589	50	130	2.0	20
LTST-C230KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-C230TGKT	■ True Green	525	150	130	3.3	20
LTST-C230TBKT	■ Blue	470	50	130	3.3	20
LTW-C230DS	■ White	(0.294, 0.286)	280	130	3.3	20

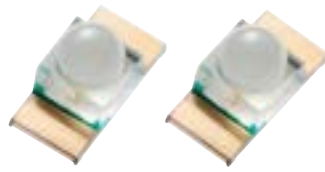
Chip LED_Top View_Dome Lens



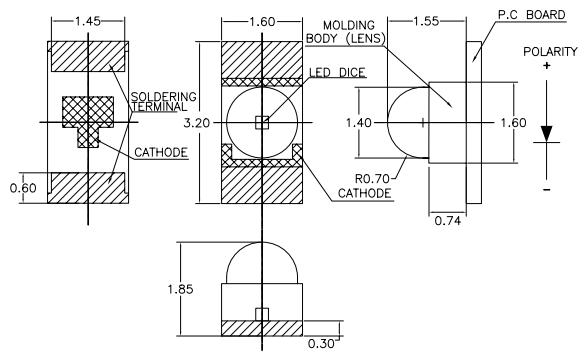
1.6 x 0.8 x 0.98 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity Iv(mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C990KRKT	■ Red	631	450	75	2.0	20
LTST-C990KFKT	■ Orange	605	300	75	2.0	20
LTST-C990KSKT	■ Yellow	589	280	75	2.0	20
LTST-C990KGKT	■ Yellow Green	571	250	75	2.0	20
LTST-C990TGKT	■ True Green	525	1800	75	3.3	20
LTST-C990TBKT	■ Blue	470	700	75	3.3	20

Chip LED _Top View _Dome Lens



3.2 x 1.6 x 1.85 mm

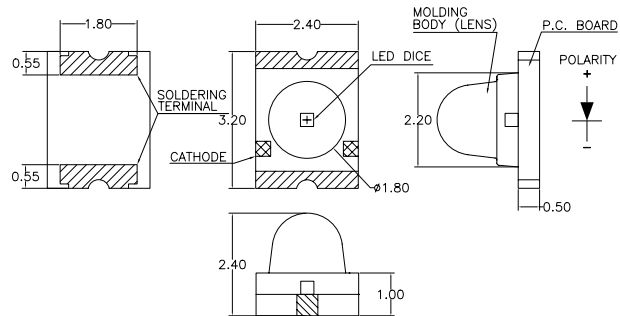


Part No.	Color	λ_d (nm)/CIE(x,y)	Iv Typ. @20mA (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C950KRKT	Red	631	900	25	2.0	20
LTST-C950KFKT	Orange	605	1800	25	2.0	20
LTST-C950KSKT	Yellow	589	1800	25	2.0	20
LTST-C950KGKT	Yellow Green	571	710	25	2.0	20
LTST-C950TGKT	True Green	525	2800	25	3.3	20
LTST-C950TBKT	Blue	470	1120	25	3.3	20
LTW-C9501DS5	White	(0.294, 0.286)	1000	25	2.8	5
LTW-9501ZDS5	White	(0.294, 0.286)	1000	25	2.8	5

Chip LED _Top View _Dome Lens

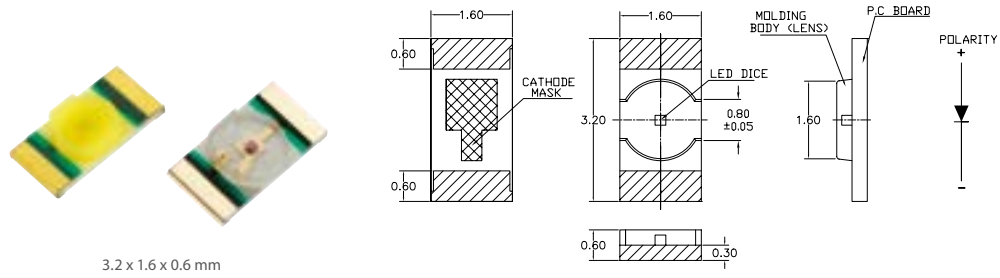


3.2 x 2.4 x 2.4 mm



Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity Iv (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C930KRKT	Red	631	850	25	2.0	20
LTST-C930KFKT	Orange	605	1200	25	2.0	20
LTST-C930KSKT	Yellow	589	800	25	2.0	20
LTST-C930KGKT	Yellow Green	571	600	25	2.0	20
LTST-C930TGKT	True Green	525	2000	25	3.3	20
LTST-C930TBKT	Blue	470	450	25	3.3	20
LTW-C9301DS5	White	(0.294, 0.286)	1600	25	2.8	5
LTW-9301ZDS5	White	(0.294, 0.286)	1600	25	2.8	5

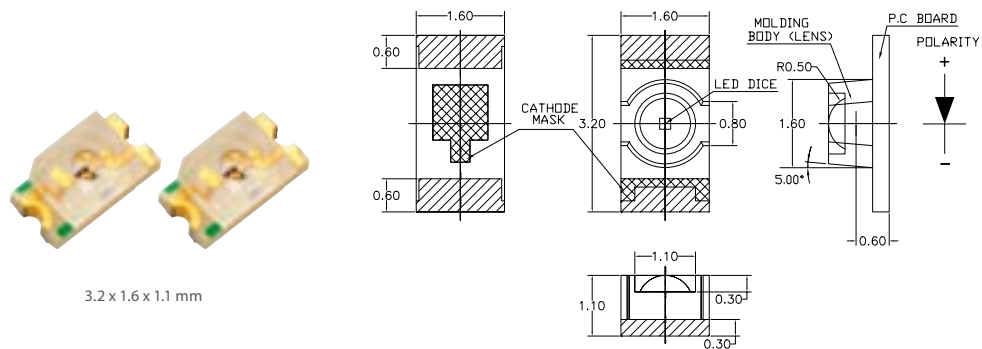
Chip LED _Top View_Inner Lens



3.2 x 1.6 x 0.6 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C216KRKT	■ Red	631	60	130	2.0	20
LTST-C216KFKT	■ Orange	605	90	130	2.0	20
LTST-C216KSKT	■ Yellow	589	50	130	2.0	20
LTST-C216KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-C216TGKT	■ True Green	525	150	130	3.3	20
LTST-C216TBKT	■ Blue	470	50	130	3.3	20
LTW-216TS5	□ White	(0.304, 0.301)	112	130	2.9	5

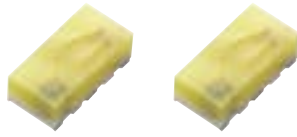
Chip LED _Top View_Inner Lens



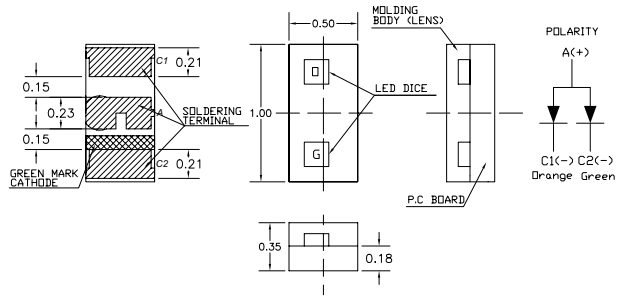
3.2 x 1.6 x 1.1 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C21KRKT	■ Red	631	100	70	2.0	20
LTST-C21KFKT	■ Orange	605	180	70	2.0	20
LTST-C21KSKT	■ Yellow	589	112	70	2.0	20
LTST-C21KGKT	■ Yellow Green	571	71	70	2.0	20
LTST-C21TGKT	■ True Green	525	450	70	3.3	20
LTST-C21TBKT	■ Blue	470	112	70	3.3	20
LTW-21TS5	□ White	(0.304, 0.301)	71	70	2.9	5

Chip LED_Top View_Dual Color



1.0 x 0.5 x 0.35 mm

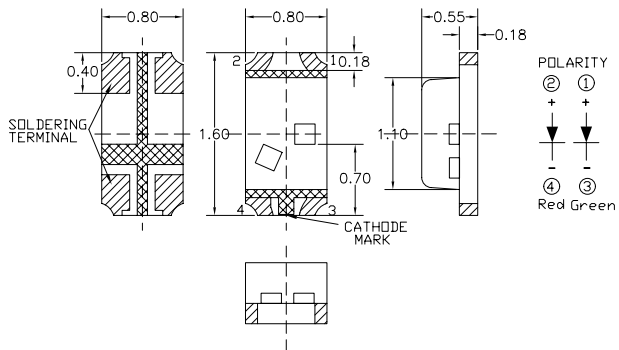


Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C285TBKEWT-5A	■ Red	621	45	130	2.0	5
	■ Blue	470	28			
LTST-C285TGKFWT-5A	■ Orange	605	28	130	2.0	5
	■ True Green	525	18			
LTST-C285KGFWT-5A	■ Orange	605	28	130	2.0	5
	■ Yellow Green	571	18			
LTW-C285DSKG-5A	■ Yellow Green	571	18	130	2.0	5
	□ White	(0.30, 0.30)	71			

Chip LED_Top View_Dual Color

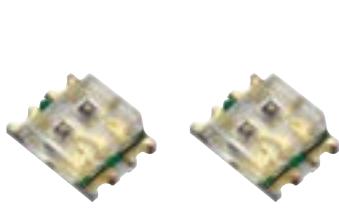


1.6 x 0.8 x 0.55 mm

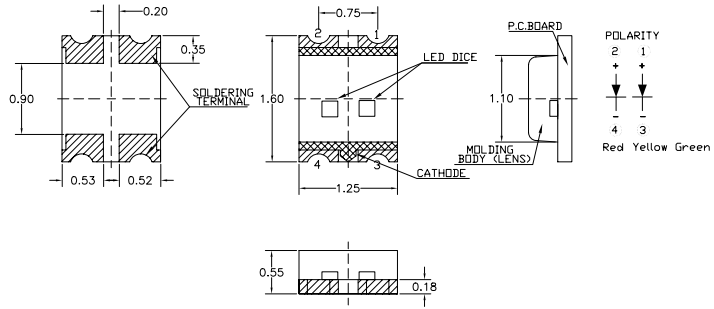


Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C295TBKFKT	■ Orange	605	45	130	2.0	20
	■ Blue	470	28			
LTST-C295KGFKT	■ Orange	605	28	130	2.0	20
	■ Yellow Green	571	18			
LTST-C295KGRKKT	■ Red	631	28	130	2.0	20
	■ Yellow Green	571	18			
LTW-295DSKS-5A	■ Yellow	589	18	130	2.0	5
	□ White	(0.30, 0.30)	71			

Chip LED_Top View_Dual Color

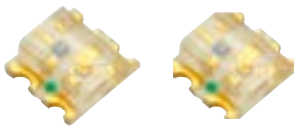


1.6 x 1.25 x 0.55 mm

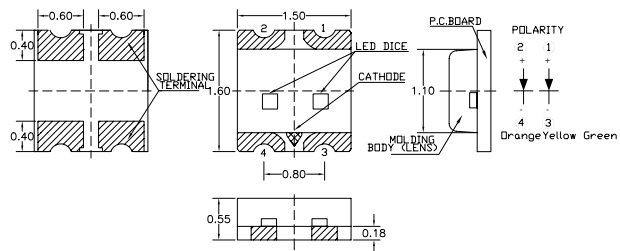


Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C395TBKFKT	Orange	605	100	130	1.9	20
	Blue	470	80			
LTST-C395KGKFKT	Orange	605	100	130	1.9	20
	Yellow Green	571	60			
LTST-C395KGKRKT	Red	631	90	130	1.9	20
	Yellow Green	571	60			

Chip LED_Top View_Dual Color

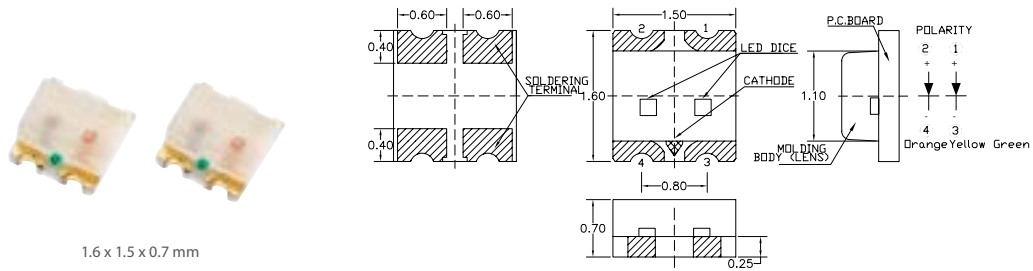


1.6 x 1.5 x 0.55 mm



Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C195TBJRKT	Red	631	45	130	2.0	20
	Blue	470	28			
LTST-C195KGKFKT	Orange	605	28	130	2.0	20
	Yellow Green	571	18			
LTST-C195KJRKT	Red	631	28	130	2.0	20
	Yellow Green	571	18			
LTW-C195DSKS-5A	Yellow	589	18	130	2.0	5
	White	(0.30, 0.30)	71			

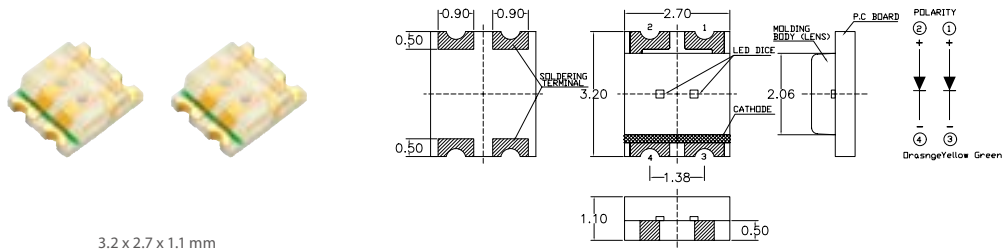
Chip LED_Top View_Dual Color



1.6 x 1.5 x 0.7 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C197TGKEKT	Red	621	45	130	2.0	20
	True Green	525	28		3.3	
LTST-C197KGKEKT	Red	621	28	130	2.0	20
	Yellow Green	571	18		2.0	
LTST-C197KGKSKT	Yellow	589	55	130	2.0	20
	Yellow Green	571	55		2.0	

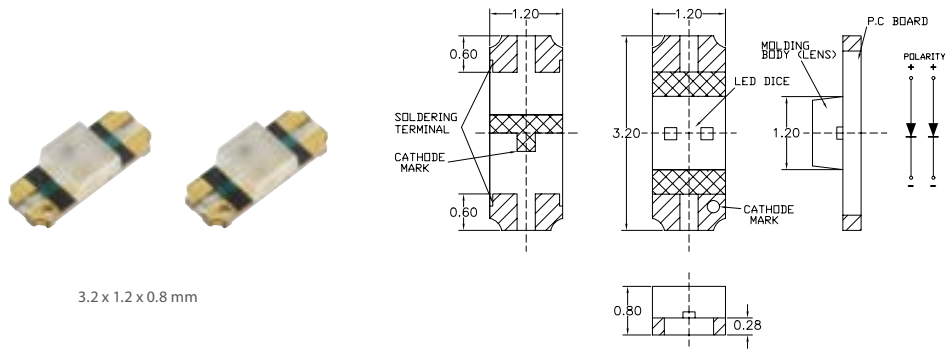
Chip LED_Top View_Dual Color



3.2 x 2.7 x 1.1 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C155TBJRKT	Red	631	45	130	2.0	20
	Blue	470	28		3.3	
LTST-C155KGKFKT	Orange	605	28	130	2.0	20
	Yellow Green	571	18		2.0	
LTST-C155KJRKT	Red	631	28	130	2.0	20
	Yellow Green	571	28		2.0	

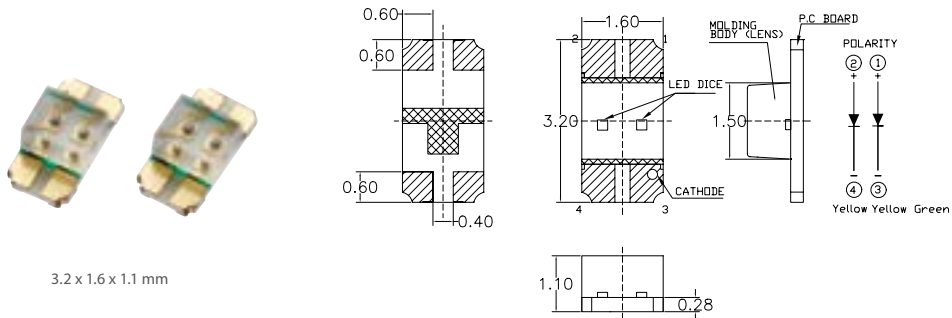
Chip LED_Top View_Reverse Mount Dual Color



3.2 x 1.2 x 0.8 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C255TBKFWT-5A	Orange	605	28	130	1.9	5
	Blue	470	28		2.8	5
LTW-C255DCKF-5A	Orange	605	28	130	2.0	5
	White	(0.28, 0.27)	71		2.85	5

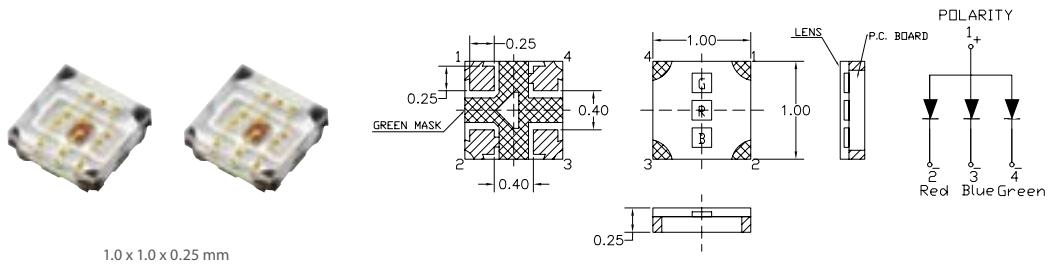
Chip LED_Top View_Reverse Mount Dual Color



3.2 x 1.6 x 1.1 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C235TBJRKT	Red	631	45	130	2.0	20
	Blue	470	28		3.3	20
LTST-C235KGKSKT	Yellow	589	28	130	2.0	20
	Yellow Green	571	18		2.0	20
LTST-C235KGKRKT	Red	631	28	130	2.0	20
	Yellow Green	571	18		2.0	20
LTW-C235DSKF-5A	Orange	605	28	130	2.0	5
	White	(0.30, 0.30)	71		2.9	5

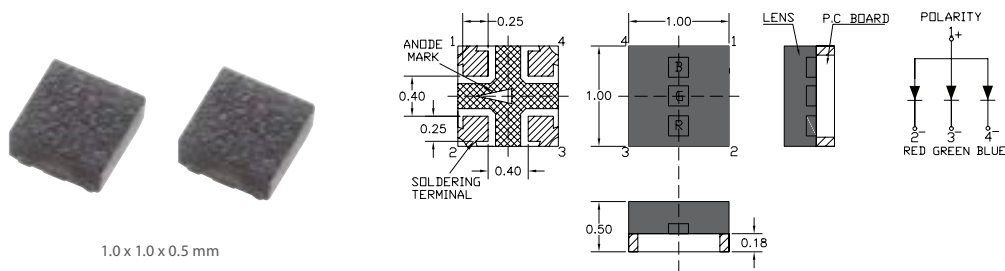
Chip LED_Top View_Multi Color



1.0 x 1.0 x 0.25 mm

Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C28NBEGK-2A	Red	624	36	120	1.7	2
	True Green	530	195		2.6	2
	Blue	470	31		2.6	2

Chip LED_Top View_Multi Color



1.0 x 1.0 x 0.5 mm

Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-B28JEGBB-5A	Red	624	7.1	130	1.9	5
	True Green	530	18		2.8	5
	Blue	470	7.1		2.8	5

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

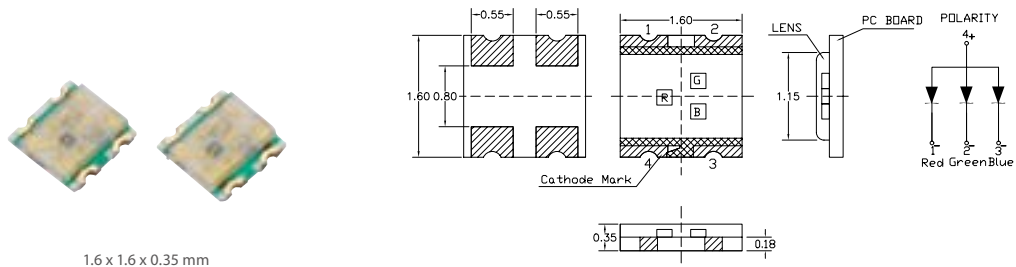
Infrared Emitter and Detector

Optical Sensors

Photocoupler

UV LED

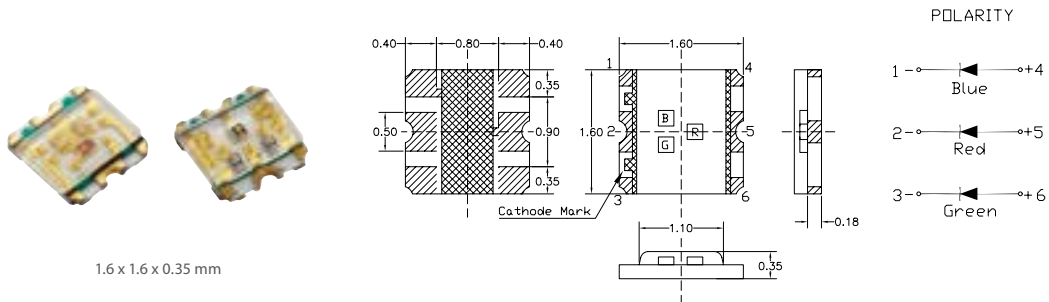
Chip LED_Top View_Multi Color



1.6 x 1.6 x 0.35 mm

Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C19HE1WT	Red	624	71	130	2.0	20
	True Green	525	180		3.3	20
	Blue	470	71		3.3	20
LTST-C19HRGYW	Red	624	112	130	2.1	20
	Yellow	594	175		2.1	20
	True Green	525	260		3.2	20

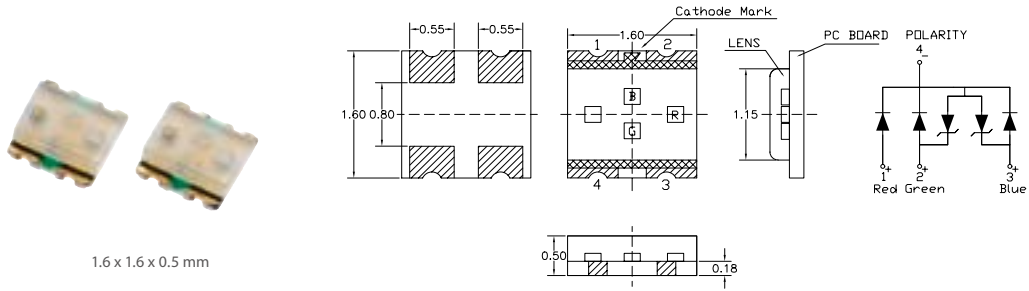
Chip LED_Top View_Multi Color



1.6 x 1.6 x 0.35 mm

Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C19KBEGK-5A	Red	624	28	130	2	5
	True Green	528	112		2.8	5
	Blue	470	28		2.8	5

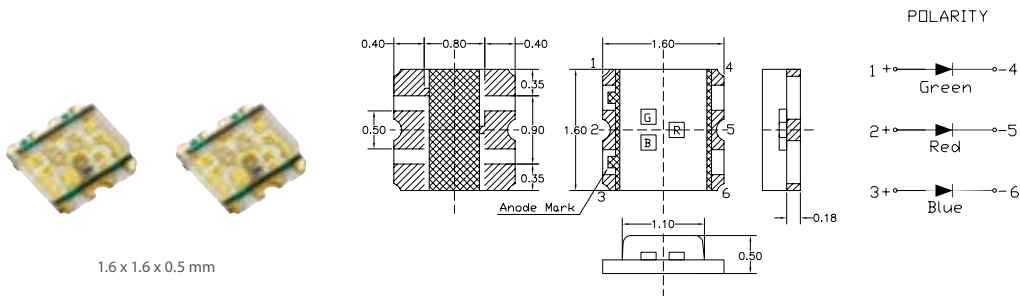
Chip LED_Top View_Multi Color



1.6 x 1.6 x 0.5 mm

Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C19JZEGB1W-5A	Red	624	28	130	1.9	5
	True Green	530	78		2.8	5
	Blue	470	28		2.8	5

Chip LED_Top View_Multi Color



1.6 x 1.6 x 0.5 mm

Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C19MGEBK-5A	Red	624	112	130	2	5
	True Green	530	280		2.6	5
	Blue	470	70		2.6	5

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

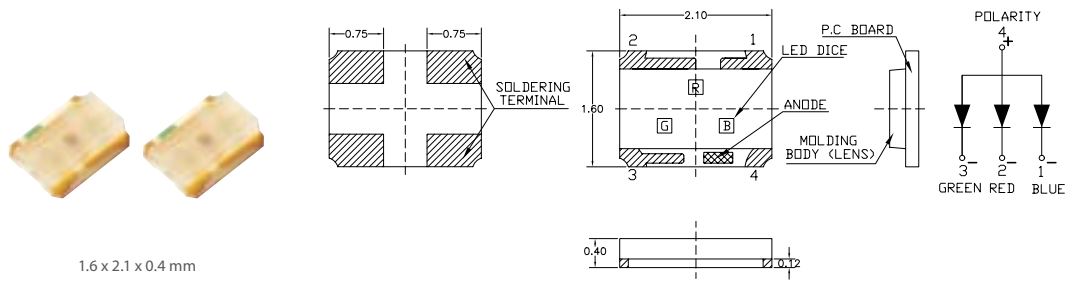
Infrared Emitter and Detector

Optical Sensors

Photocoupler

UV LED

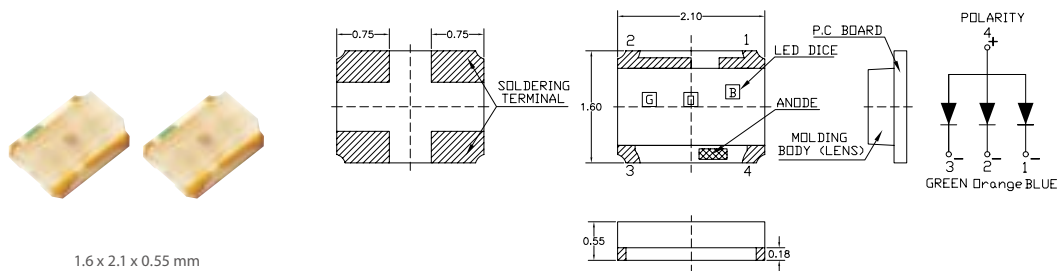
Chip LED_Top View_Multi Color



1.6 x 2.1 x 0.4 mm

Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C19GD2WT	■ Red	626	100	130	2	20
	■ True Green	525	180		3.3	20
	■ Blue	470	40		3.3	20

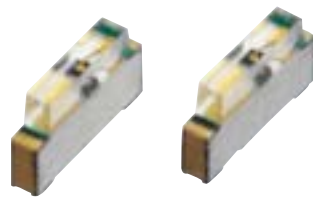
Chip LED_Top View_Multi Color



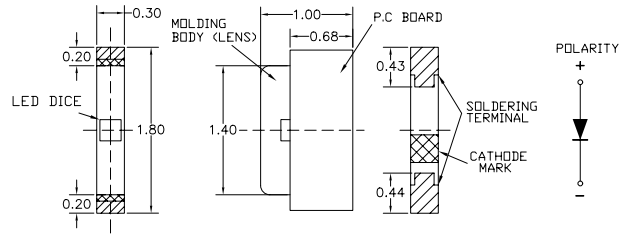
1.6 x 2.1 x 0.55 mm

Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-C19FD1WT	■ Orange	605	71	130	2	20
	■ True Green	525	180		3.3	20
	■ Blue	470	71		3.3	20

Chip LED_Side View

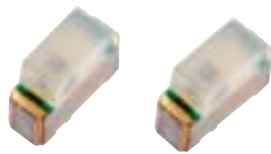


1.8 x 1.0 x 0.3 mm

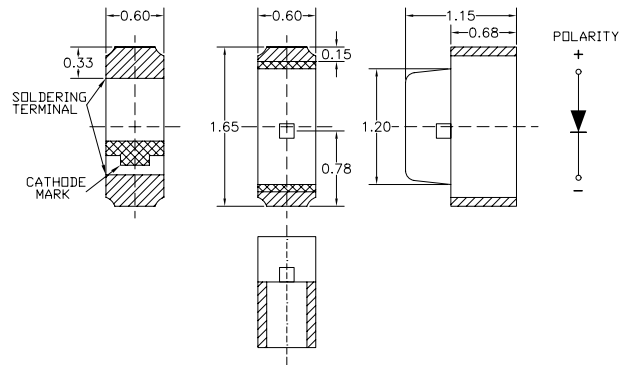


Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-S482KRKT-5A	■ Red	631	30	130	1.9	5
LTST-S482KFKT-5A	■ Orange	605	20	130	1.9	5
LTST-S482KSKT-5A	■ Yellow	587	20	130	1.9	5
LTST-S482KGKT-5A	■ Yellow Green	571	15	130	1.9	5
LTST-S482TGKT-5A	■ True Green	525	70	130	2.9	5
LTST-S482TBKT-5A	■ Blue	470	20	130	2.9	5
LTW-S482DS5	■ White	(0.29, 0.29)	180	130	2.9	5

Chip LED_Side View

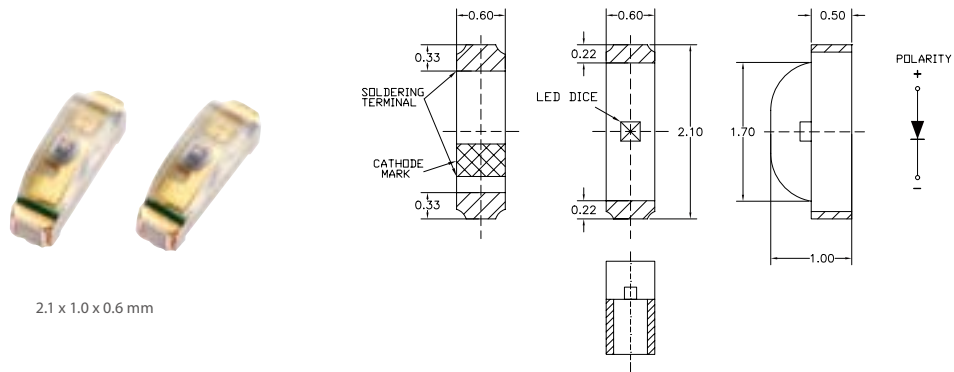


1.6 x 1.15 x 0.6 mm



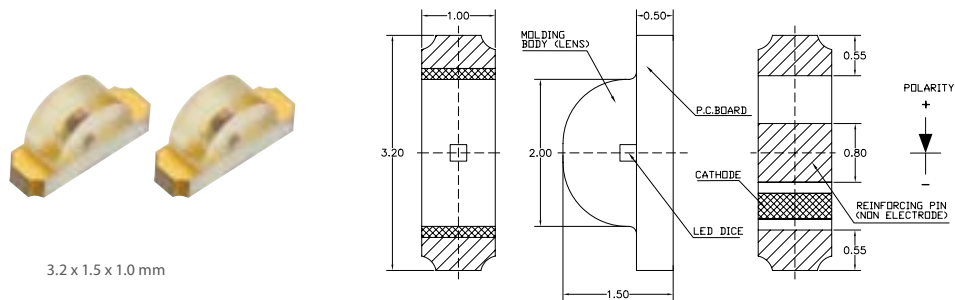
Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-S270KRKT	■ Red	631	60	130	2.0	20
LTST-S270KFKT	■ Orange	605	90	130	2.0	20
LTST-S270KSKT	■ Yellow	589	50	130	2.0	20
LTST-S270KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-S270TGKT	■ True Green	525	150	130	3.3	20
LTST-S270TBKT	■ Blue	470	50	130	3.3	20
LTW-270TLA	■ White	(0.31, 0.32)	113	130	3.1	10

Chip LED_Side View



Part No.	Color	$\lambda_d(\text{nm})/\text{CIE}(x,y)$	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-S220KRKT	■ Red	631	60	130	2.0	20
LTST-S220KFKT	■ Orange	605	90	130	2.0	20
LTST-S220KSKT	■ Yellow	589	50	130	2.0	20
LTST-S220KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-S220TGKT	■ True Green	525	150	130	3.3	20
LTST-S220TBKT	■ Blue	470	50	130	3.3	20
LTW-S221DS	■ White	(0.3, 0.3)	280	130	3.3	20

Chip LED_Side View

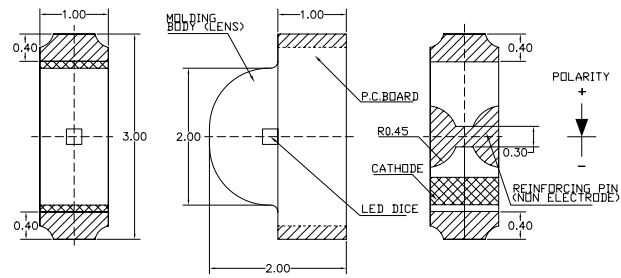


Part No.	Color	$\lambda_d(\text{nm})/\text{CIE}(x,y)$	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-S110KRKT	■ Red	631	54	130	2.0	20
LTST-S110KFKT	■ Orange	605	90	130	2.0	20
LTST-S110KSKT	■ Yellow	589	80	130	2.0	20
LTST-S110KGKT	■ Yellow Green	571	35	130	2.0	20
LTST-S110TGKT	■ True Green	525	150	130	3.3	20
LTST-S110TBKT	■ Blue	470	70	130	3.3	20
LTW-110TS5	■ White	(0.304, 0.301)	70	130	2.9	5

Chip LED_Side View

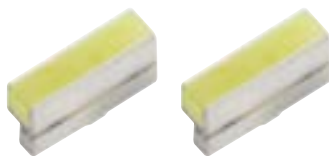


3.0 x 2.0 x 1.0 mm

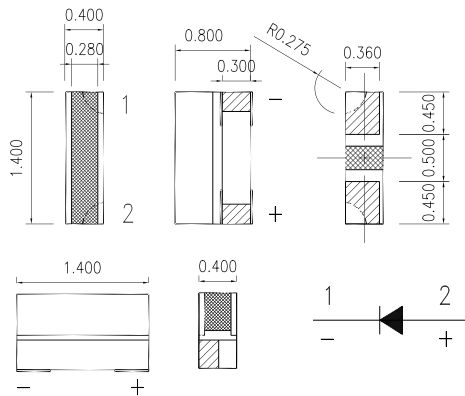


Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-S320KRKT	■ Red	631	54	130	2.0	20
LTST-S320KFKT	■ Orange	605	90	130	2.0	20
LTST-S320KSKT	■ Yellow	589	50	130	2.0	20
LTST-S320KGKT	■ Yellow Green	571	80	130	2.0	20
LTST-S320TGKT	■ True Green	525	150	130	3.3	20
LTST-S320TBKT	■ Blue	470	70	130	3.3	20
LTW-S321ZDS5	■ White	(0.30, 0.29)	90	130	2.9	5

Chip LED_Side View with Reflector



1.4 x 0.8 x 0.4 mm



Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTW-S850DC5	■ White	(0.2862, 0.2742)	1.2	130	2.8	5

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

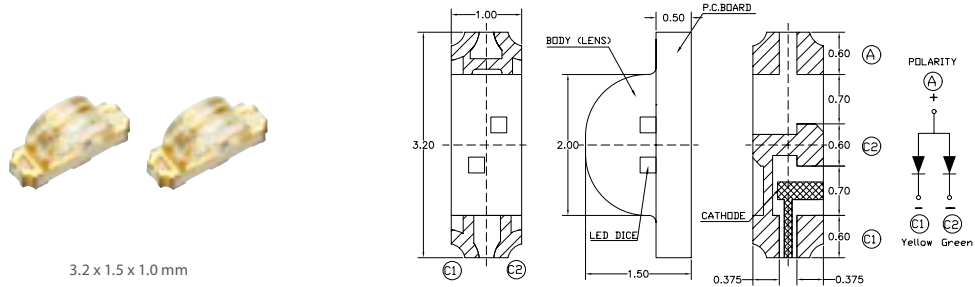
Infrared Emitter and Detector

Optical Sensors

Photocoupler

UV LED

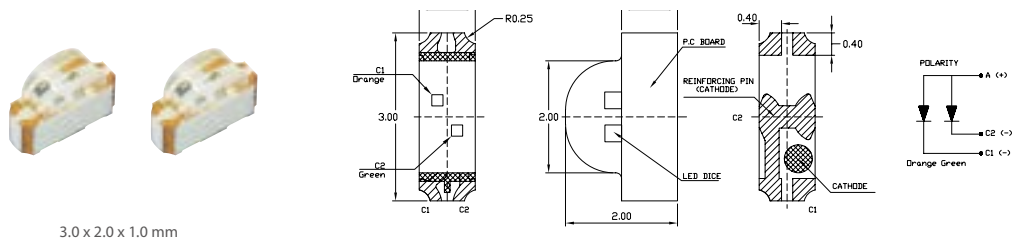
Chip LED_Side View_Dual Color



3.2 x 1.5 x 1.0 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-S115TGKFKT	Orange	605	112	130	3.3	20
	True Green	525	112		2.0	
LTST-S115KGKFKT	Orange	605	90	130	2.0	20
	Yellow Green	571	35		2.0	
LTST-S115KJRKT	Red	631	45	130	2.0	20
	Yellow Green	571	35		2.0	
LTW-S115KFDS-5A	Orange	605	40	130	2.9	5
	White	(0.29, 0.282)	70		2.2	

Chip LED_Side View_Dual Color



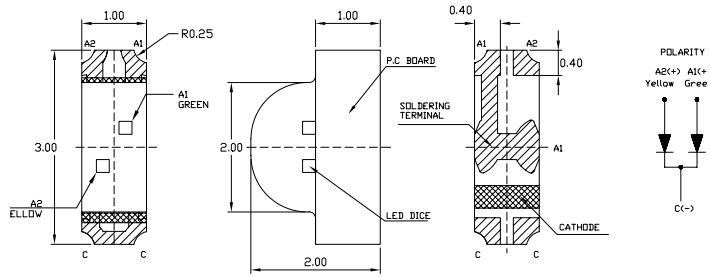
3.0 x 2.0 x 1.0 mm

Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-S326TBKSKT	Yellow	589	90	130	2.0	20
	Blue	470	35		3.3	
LTST-S326KGKFKT	Orange	605	90	130	2.0	20
	Yellow Green	571	35		2.0	
LTST-S326KJRKT	Red	631	45	130	2.0	20
	Yellow Green	571	35		2.0	
LTW-326DSKF-5A	Orange	605	40	130	2.9	5
	White	(0.3, 0.3)	70		2.2	

Chip LED_Side View_Dual Color



3.0 x 2.0 x 1.0 mm

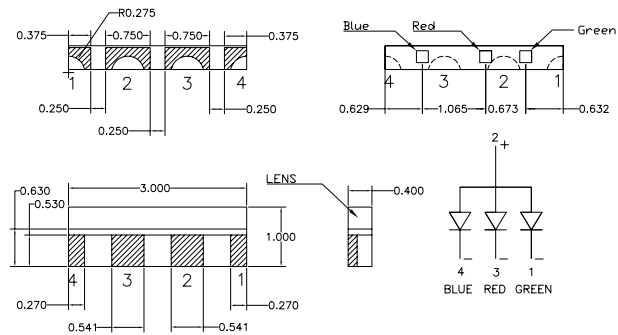


Part No.	Color	λ_d (nm)/CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-S327TBKFKT	Orange	605	90	130	2.0	20
	Blue	470	45		3.3	
LTST-S327KGRJKT	Red	631	45	130	2.0	20
	Yellow Green	571	35		2.0	
LTST-S327KGSJKT	Yellow	589	75	130	2.0	20
	Yellow Green	571	35		2.0	
LTW-327DSKF-5A	Orange	605	40	130	2.2	5
	White	(0.3, 0.3)	70		2.6	

Chip LED_Side View_Multi Color



3.0 x 1.0 x 0.4 mm

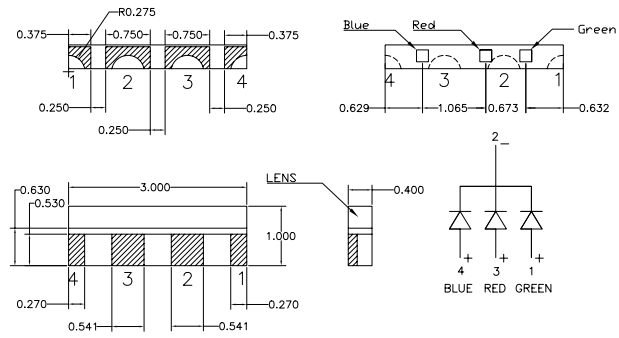


Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-S33FBEGW-5A	Red	624	180	130	1.9	5
	True Green	525	112		2.9	
	Blue	470	71		2.9	

Chip LED_Side View_Multi Color



3.0 x 1.0 x 0.4 mm

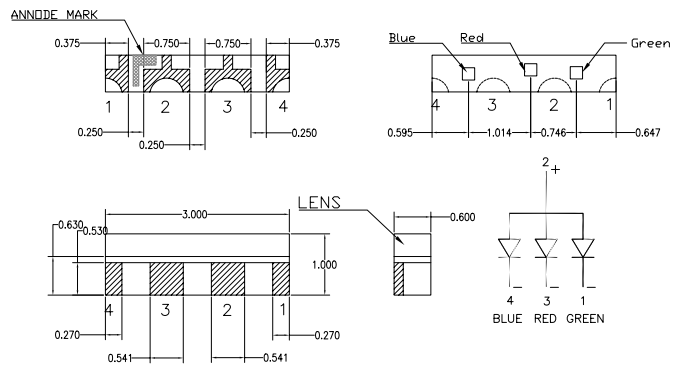


Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-S43FBEGW	■ Red	624	28	130	2	5
	■ True Green	525	112		2.85	5
	■ Blue	470	28		2.85	5

Chip LED_Side View_Multi Color

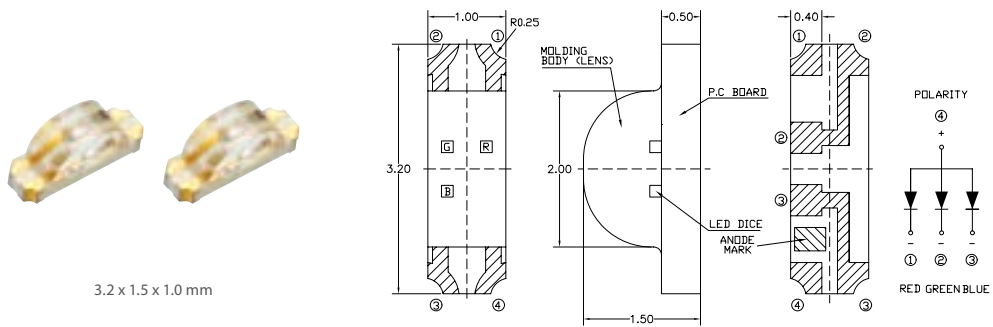


3.0 x 1.0 x 0.6 mm



Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-S33GBEGK	■ Red	624	575	130	2.2	20
	■ True Green	525	1500		2.9	20
	■ Blue	470	335		2.9	20

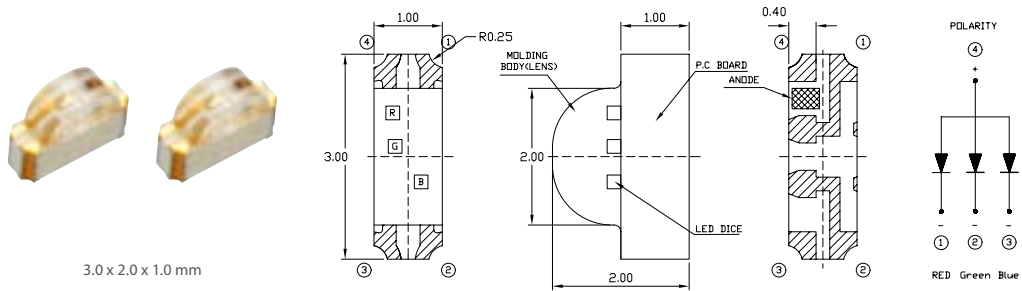
Chip LED_Side View_Multi Color



3.2 x 1.5 x 1.0 mm

Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-S310F3WT	Red	624	71	130	2	20
	True Green	525	180		3.3	20
	Blue	470	71		3.3	20

Chip LED_Side View_Multi Color



3.0 x 2.0 x 1.0 mm

Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-S32F1KT	Red	624	112	130	2	20
	True Green	525	180		3.3	20
	Blue	470	71		3.3	20

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

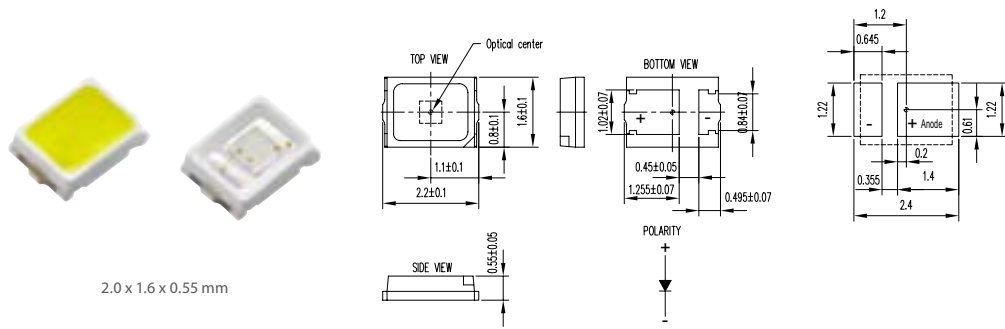
Infrared Emitter and Detector

Optical Sensors

Photocoupler

UV LED

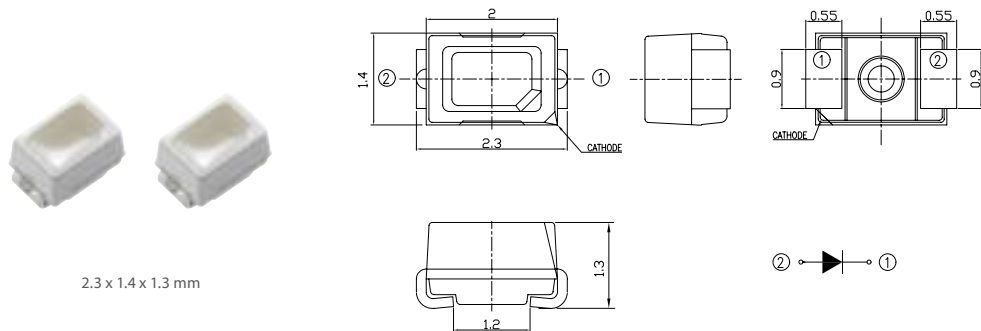
PLCC_Top View



2.0 x 1.6 x 0.55 mm

Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-C0610VEWT	Red	624	1120	120	2.00	20	30
LTST-C0610VSWT	Yellow	589	1120	120	2.00	20	30
LTST-C0610UGWT	True Green	525	1800	120	3.20	20	30
LTST-C0610UBWT	Blue	470	355	120	3.20	20	30
LTST-C0610ZWET	White	(0.31, 0.31)	2240	120	3.20	20	30

PLCC_Top View



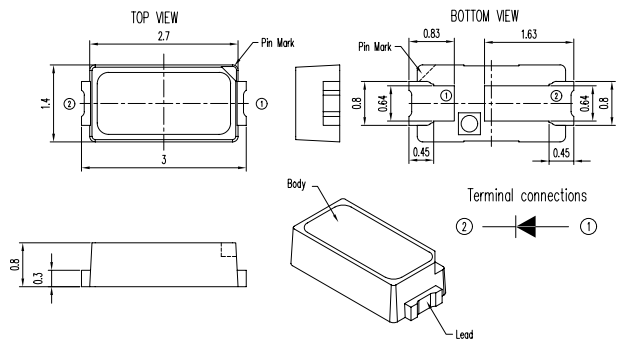
2.3 x 1.4 x 1.3 mm

Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-M230VEWT	Red	624	900	120	2.0	20	30
LTST-M230VSWT	Yellow	589	900	120	2.0	20	30
LTST-M230UGWT	True Green	525	1800	120	3.2	20	30
LTST-M230UBWT	Blue	470	355	120	3.2	20	30
LTST-M230ZWET	White	(0.31, 0.31)	2240	120	3.2	20	30

PLCC_Top View



2.7 x 1.4 x 0.8 mm



Part No.	Color	$\lambda_d(\text{nm})$ / CIE(x,y)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_f (mA)
LTW-K140RS625	■ Red	625	3.1	120	2.1	20	30
LTW-K140OS607	■ Orange	607	2.8	120	2.1	20	30
LTW-K140YS587	■ Yellow	587	2.5	120	2.1	20	30
LTW-K140GS525	■ True Green	525	6.8	120	3.2	20	30
LTW-K140BS470	■ Blue	470	1.4	120	3.2	20	30
LTW-K140SCIB	■ Ice Blue	(0.24, 0.29)	8	120	2.9	20	30
LTW-K140SCTF	■ Tiffany Blue	(0.22, 0.33)	7.7	120	2.9	20	30
LTW-K140SCVL	■ Violet	(0.32, 0.19)	5	120	2.9	20	30
LTW-K140SCSK	■ Sakura Pink	(0.45, 0.26)	6	120	2.9	20	30
LTW-K140SCGD	■ Gold	(0.40, 0.46)	9.5	120	2.9	20	30

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

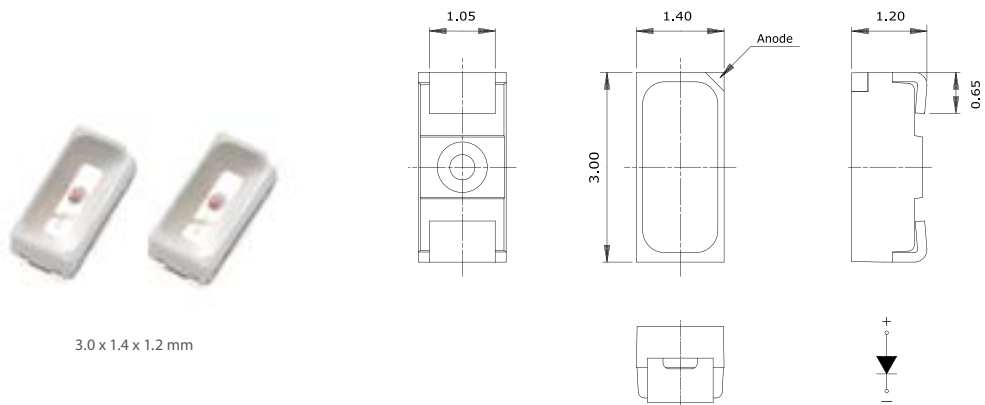
Infrared Emitter and
Detector

Optical Sensors

Photocoupler

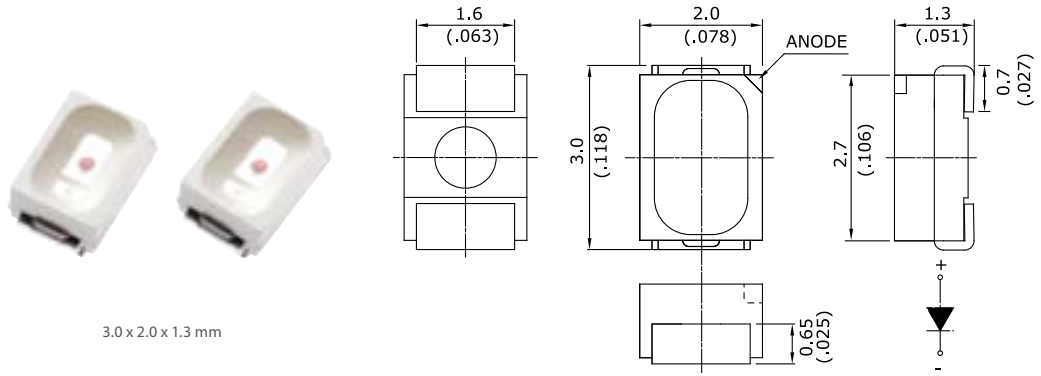
UV LED

PLCC_Top View



Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-M140KRKT	■ Red	631	180	-	120	2.0	20	30
LTST-M140QEKT	■ Red Orange	624	355	-	120	2.0	20	30
LTST-M140KFKT	■ Orange	605	355	-	120	2.0	20	30
LTST-M140KSKT	■ Yellow	589	280	-	120	2.0	20	30
LTST-M140QSKT	■ Yellow	589	355	-	120	2.0	20	30
LTST-M140KGKT	■ Yellow Green	571	112	-	120	2.0	20	30
LTST-M140TGKT	■ True Green	525	560	-	120	3.2	20	30
LTST-M140TBKT	■ Blue	470	280	-	120	3.2	20	30
LTW-M140ZVS	■ White	(0.296, 0.285)	-	6.5	120	3.2	20	30

PLCC_Top View



3.0 x 2.0 x 1.3 mm

Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_f (mA)
LTST-M670KRKT	■ Red	631	180	120	2.0	20	30
LTST-M670KFKT	■ Orange	605	280	120	2.0	20	30
LTST-M670KSKT	■ Yellow	589	280	120	2.0	20	30
LTST-M670KGKT	■ Yellow Green	571	112	120	2.0	20	30
LTST-M670TGKT	■ True Green	525	560	120	3.2	20	30
LTST-M670TBKT	■ Blue	470	280	120	3.2	20	30
LTW-M670ZVS-M5	■ White	(0.29, 0.27)	2400	120	3.2	20	30

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and
Detector

Optical Sensors

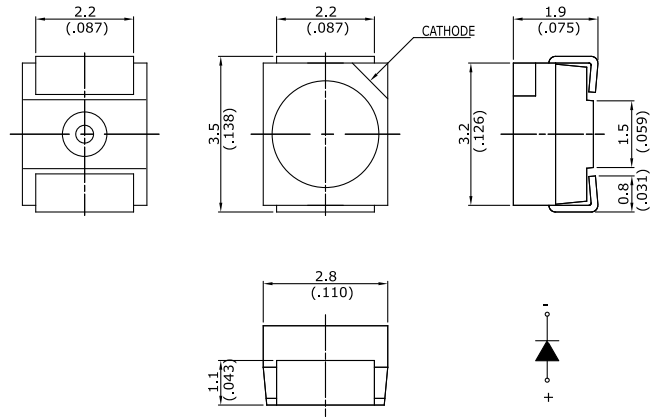
Photocoupler

UV LED

PLCC_Top View

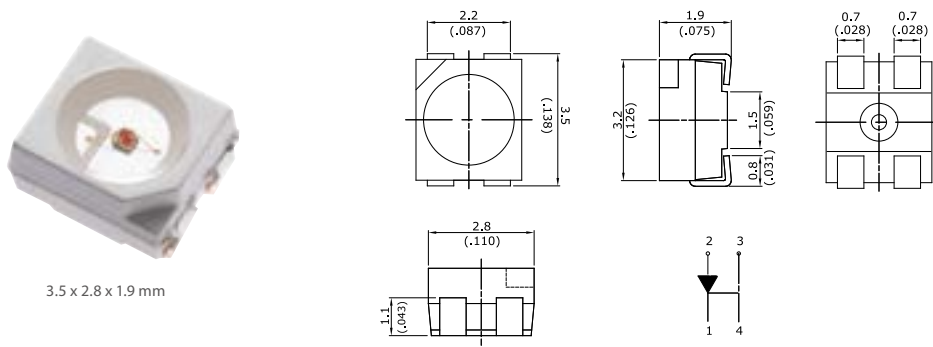


3.5 x 2.8 x 1.9 mm



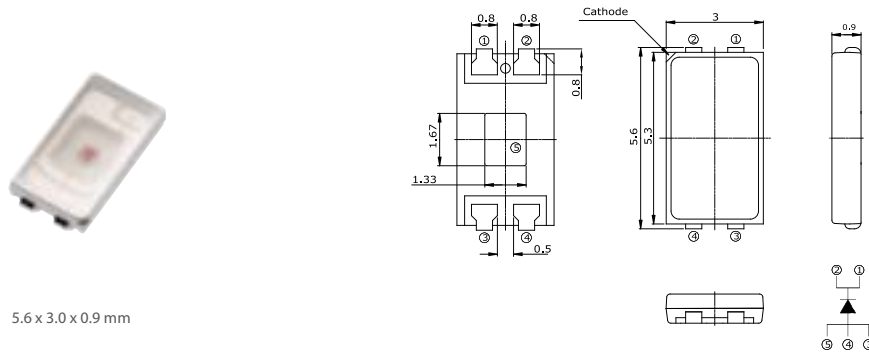
Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_{fM} (mA)
LTST-T680KRWT	Red	631	140	-	120	2.0	20	30
LTW-670RS625	Red	625	-	3.1	120	2.1	20	30
LTST-T680VEWT	Red	624	1120	-	120	2.0	20	30
LTST-T680QEWT	Red	624	710	-	120	2.0	20	30
LTW-670OS607	Orange	607	-	2.8	120	2.1	20	30
LTST-T680KFWT	Orange	605	224	-	120	2.0	20	30
LTST-T680KSWT	Yellow	589	224	-	120	2.0	20	30
LTST-T680VSWT	Yellow	589	1120	-	120	2.0	20	30
LTST-T680QSWT	Yellow	589	710	-	120	2.0	20	30
LTW-670YS587	Yellow	587	-	2.5	120	2.1	20	30
LTST-T680KGWT	Yellow Green	571	90	-	120	2.0	20	30
LTST-T680TGWT	True Green	525	710	-	120	3.2	20	30
LTST-T680UGWT	True Green	525	1120	-	120	3.2	20	30
LTW-670GS525	True Green	525	-	6.1	120	3.2	20	30
LTST-T680UBWT	Blue	470	355	-	120	3.2	20	30
LTW-670BS470	Blue	470	-	1.4	120	3.2	20	30
LTW-670DS-EL	White	(0.31, 0.30)	2500	-	120	3.2	20	30
LTST-T680UWET	White	(0.31, 0.31)	2240	-	120	3.2	20	30

PLCC_Top View



Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_{fmax} (mA)
LTST-E680VEWT	■ Red	631	1500	120	2.2	20	50
LTST-E680VSWT	■ Yellow	589	1800	120	2.2	20	50
LTST-E680UGWT	■ True Green	525	1800	120	3.3	20	50
LTST-E680UBWT	■ Blue	470	710	120	3.3	20	50

PLCC_Top View

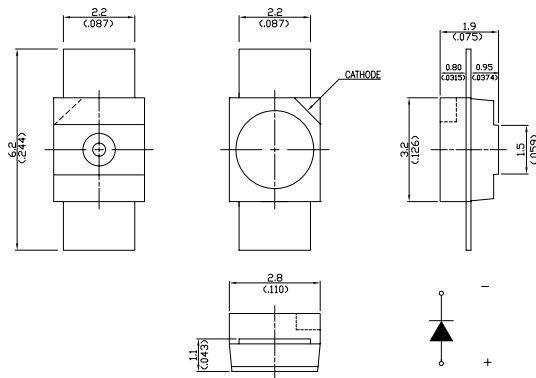


Part No.	Color	λ_d (nm)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_{fmax} (mA)
LTST-5630VDWT	■ Red	639	6.72	130	2.2	20	150
LTST-5630VEWT	■ Red	624	13.5	130	2.2	20	150
LTST-5630VSWT	■ Yellow	589	13.5	130	2.2	20	150
LTST-5630UGWT	■ True Green	530	27	130	3.4	20	150
LTST-5630UBWT	■ Blue	460	4.2	130	3.4	20	150
LTST-5630ULWT	■ Blue	450	4.2	130	3.4	20	150

PLCC_Top View



6.2 x 2.8 x 1.9 mm

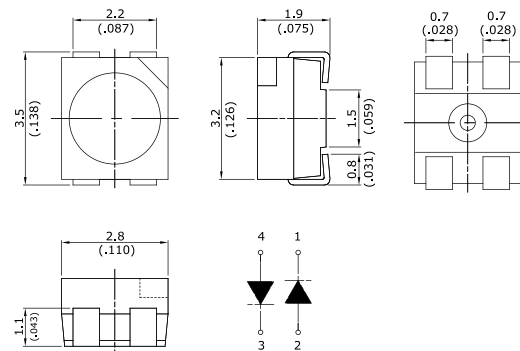


Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_f (mA)
LTST-F680VEWT	■ Red	624	900	120	2.0	20	30
LTST-F680VSWT	■ Yellow	589	900	120	2.0	20	30
LTST-F680UGWT	■ True Green	525	1800	120	3.2	20	30
LTST-F680UBWT	■ Blue	470	355	120	3.2	20	30
LTST-F680UBET	■ White	(0.31, 0.31)	2240	120	3.2	20	30

PLCC_Top View_Dual Color



3.5 x 2.8 x 1.9 mm

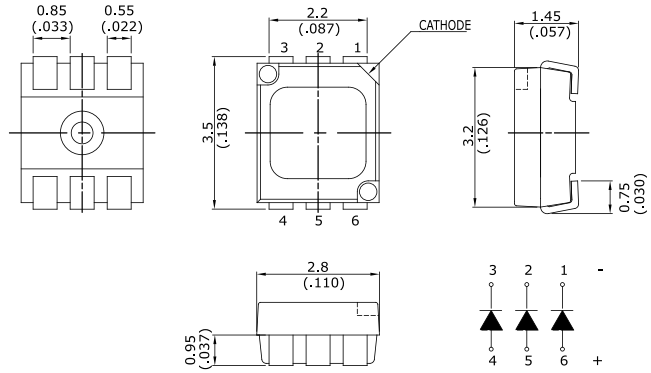


Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_f (mA)
LTST-E682KRKGWT	■ Red	631	180	120	2.0	20	30
	■ Yellow Green	571	140	120	2.0	20	30
LTST-E682KGKFWT	■ Orange	605	224	120	2.0	20	30
	■ Yellow Green	571	112	120	2.0	20	30
LTST-E682KGKSWT	■ Yellow	589	355	120	2.0	20	30
	■ Yellow Green	571	140	120	2.0	20	30
LTST-E682KETBWT	■ Red	624	280	120	2.0	20	30
	■ Blue	470	280	120	3.2	20	30
LTST-E682TGKRWT	■ True Green	525	710	120	3.2	20	30
	■ Red	631	180	120	2.0	20	30

PLCC_Top View_Multi Color



3.5 x 2.8 x 1.3 mm



Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_f (mA)
LTST-G683GEBW	Red	624	710	120	2.0	20	30
	True Green	525	1400	120	3.2	20	30
	Blue	470	280	120	3.2	20	30
LTST-G683RGBW	Red	624	140	120	2.0	20	30
	True Green	525	450	120	3.2	20	30
	Blue	470	224	120	3.2	20	30
LTST-G683ESBW	Red	624	710	120	2.0	20	30
	Yellow	590	710	120	2.0	20	30
	Blue	470	280	120	3.2	20	30

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and Detector

Optical Sensors

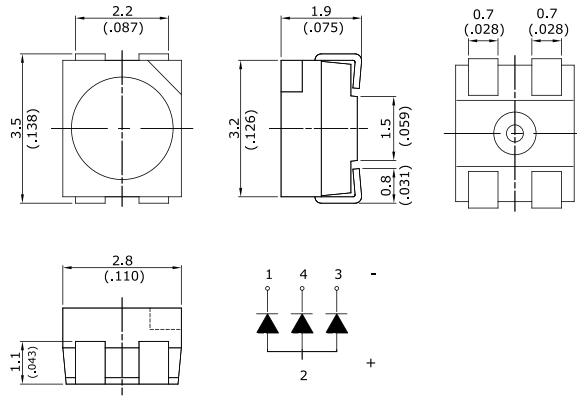
Photocoupler

UV LED

PLCC_Top View_Multi Color



3.5 x 2.8 x 1.9 mm

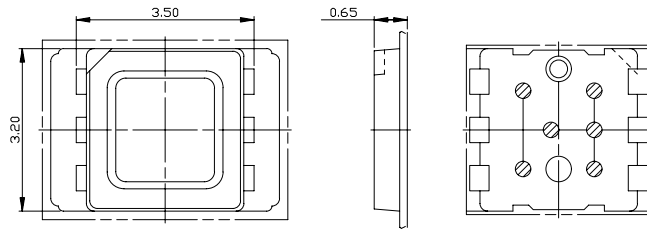


Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_f (mA)
LTST-E683RGBW	■ Red	631	140	120	2.0	20	30
	■ True Green	525	710	120	3.2	20	30
	■ Blue	470	224	120	3.2	20	30
LTST-E683FGBW	■ Orange	605	280	120	2.0	20	30
	■ True Green	525	710	120	3.2	20	30
	■ Blue	470	224	120	3.2	20	30
LTST-E683EGSW	■ Red	631	224	120	2.0	20	30
	■ True Green	525	450	120	3.2	20	30
	■ Yellow	590	224	120	2.0	20	30
LTST-E683EGBW	■ Red	631	71	120	2.0	20	30
	■ True Green	525	450	120	3.2	20	30
	■ Blue	470	140	120	3.2	20	30

PLCC_Top View_Multi Color



3.5 x 3.2 x 0.65 mm



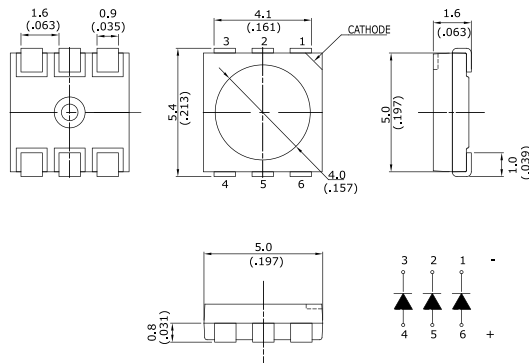
BACK VIEW

Part No.	Color	λ_d (nm)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTW-Q35ZRGB	Red	625	2.55	120	2.1	20	30
	True Green	525	7.35	120	2.9	20	30
	Blue	470	0.95	120	3.0	20	30

PLCC_Top View_Multi Color



5.4 x 5.0 x 1.6 mm

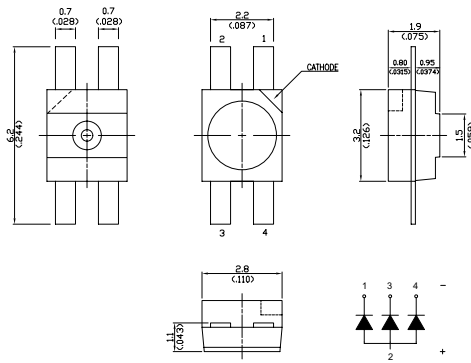


Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-G563DDD	Red	640	900	120	2.0	20	30
LTST-G563EEE	Red	624	1800	120	2.0	20	30
LTST-G563SSS	Yellow	589	2240	120	2.0	20	30
LTST-G563ZGG	True Green	525	4500	120	3.2	20	30
LTST-G563ZBB	Blue	470	900	120	3.2	20	30
LTST-G563ZEG	Red	624	710	120	2.0	20	30
	True Green	525	1800	120	3.2	20	30
	Blue	470	450	120	3.2	20	30
LTST-G563BBE	White	(0.31, 0.31)	7500	120	3.2	20	30

PLCC_Top View_Multi Color



6.2 x 2.8 x 1.9 mm

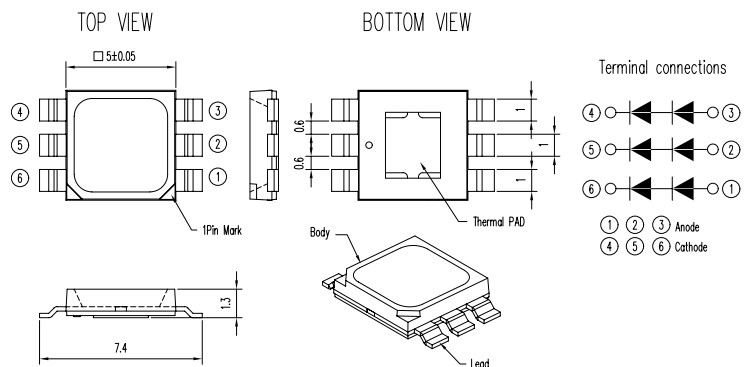


Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-A683GEBW	Red	624	710	120	2.0	20	30
	True Green	525	1400	120	3.2	20	30
	Blue	470	355	120	3.2	20	30
LTST-A683BEGW	Red	624	710	120	2.0	20	30
	True Green	525	1400	120	3.2	20	30
	Blue	470	355	120	3.2	20	30

PLCC_Top View_Multi Color

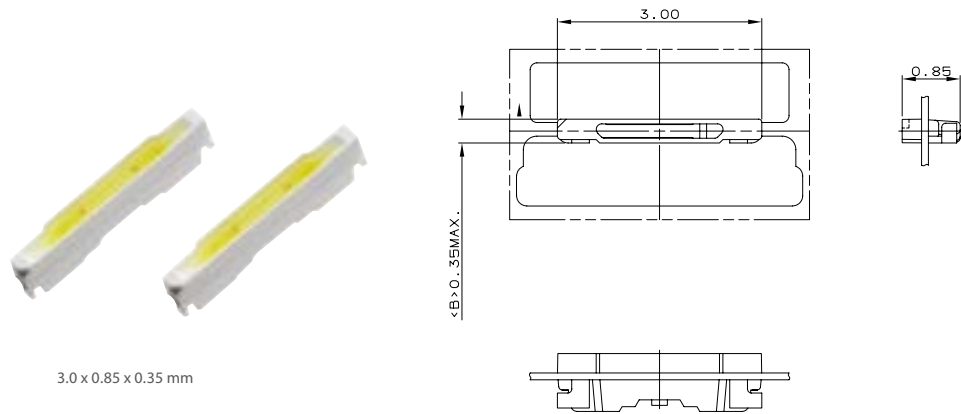


7.4 x 5.0 x 1.3 mm



Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTPL-P033RGB	Red	625	6800	21	120	2.2	150	300
	True Green	525	10000	30	120	3.2	150	300
	Blue	460	3000	9	120	3.1	150	300

PLCC_Side View



Part No.	Color	CIE(x,y)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_f (mA)
LTW-303DCG-KB	White	(0.285, 0.265)	7.2	120	3.0	20	30

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

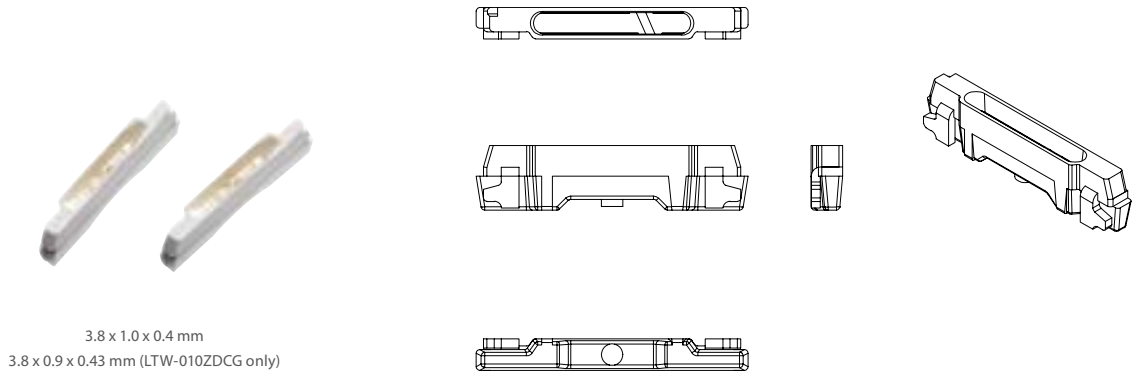
Infrared Emitter and Detector

Optical Sensors

Photocoupler

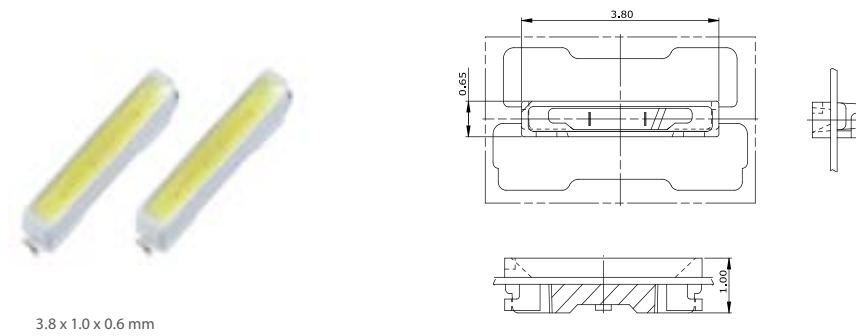
UV LED

PLCC_Side View



Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_f (mA)
LTST-010KRKT	Red	631	180	120	2	20	30
LTW-010SCR	Red	620	720	120	2.2	20	30
LTST-010KFKT	Orange	605	180	120	2	20	30
LTST-010KSKT	Yellow	589	280	120	2	20	30
LTST-010KGKT	Yellow Green	571	112	120	2	20	30
LTW-010SCG	True Green	525	2400	120	3.0	20	30
LTST-010TGKT	True Green	525	450	120	3.2	20	30
LTST-010TBKT	Blue	470	140	120	3.2	20	30
LTW-010SCB	Blue	465	500	120	3.0	20	30
LTW-010DCG	White	(0.300, 0.283)	2100	120	3.1	20	30
LTW-010DCG-TR	White	(0.293, 0.283)	2500	120	3.0	20	30
LTW-010SCSK	Sakura Pink	(0.45, 0.26)	1700	120	3.0	20	30
LTW-010SCVL	Violet	(0.32, 0.19)	1700	120	3.0	20	30

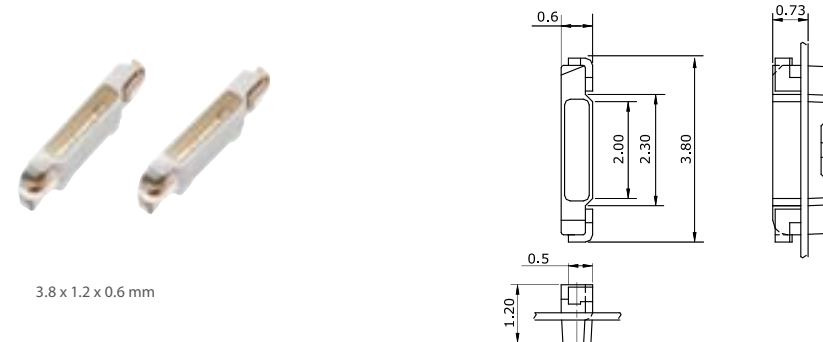
PLCC_Side View



3.8 x 1.0 x 0.6 mm

Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_f (mA)
LTW-206KRKT	■ Red	620	2.25	120	2.2	20	30
LTW-206VFKT-PX	■ Orange	605	2.38	120	2.2	20	30
LTW-206DCG-TMS	■ White	(0.285, 0.267)	8	120	3.0	20	30
LTW-206DCG-TM	■ White	(0.285, 0.267)	8.5	120	3.1	20	30

PLCC_Side View



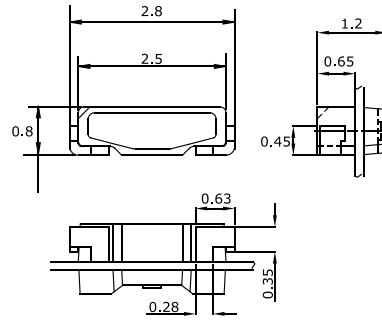
3.8 x 1.2 x 0.6 mm

Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_f (mA)
LTST-020KRKT	■ Red	631	180	120	2	20	30
LTST-020KFKT	■ Orange	605	180	120	2	20	30
LTST-020KSKT	■ Yellow	589	280	120	2	20	30
LTST-020KGKT	■ Yellow Green	571	112	120	2	20	30
LTST-020TGKT	■ True Green	525	450	120	3.2	20	30
LTST-020TBKT	■ Blue	470	140	120	3.2	20	30
LTW-020ZDCG	■ White	(0.297, 0.278)	1300	120	3.1	20	30
LTW-006DCG-E2	■ White	(0.277, 0.257)	2100	120	3.1	20	30

PLCC_Side View

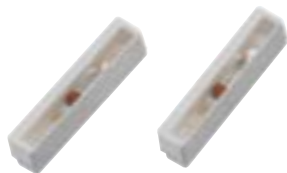


2.8 x 1.2 x 0.8 mm
2.85 x 1.2 x 0.8 mm (LTW-108DCG only)

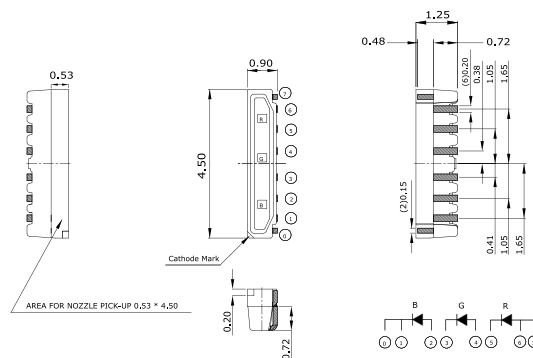


Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-108KRKT	Red	631	180	120	2	20	30
LTST-108KFKT	Orange	605	180	120	2	20	30
LTST-108KSKT	Yellow	589	280	120	2	20	30
LTST-108KGKT	Yellow Green	571	140	120	2	20	30
LTST-108TGKT	True Green	525	710	120	3.2	20	30
LTST-108TBKT	Blue	470	180	120	3.2	20	30
LTW-008ZDCG	White	(0.295, 0.273)	1200	120	3.1	20	30
LTW-108SEG-W	White	(0.295, 0.280)	2200	120	3.1	20	30

PLCC_Side View_Dual Color

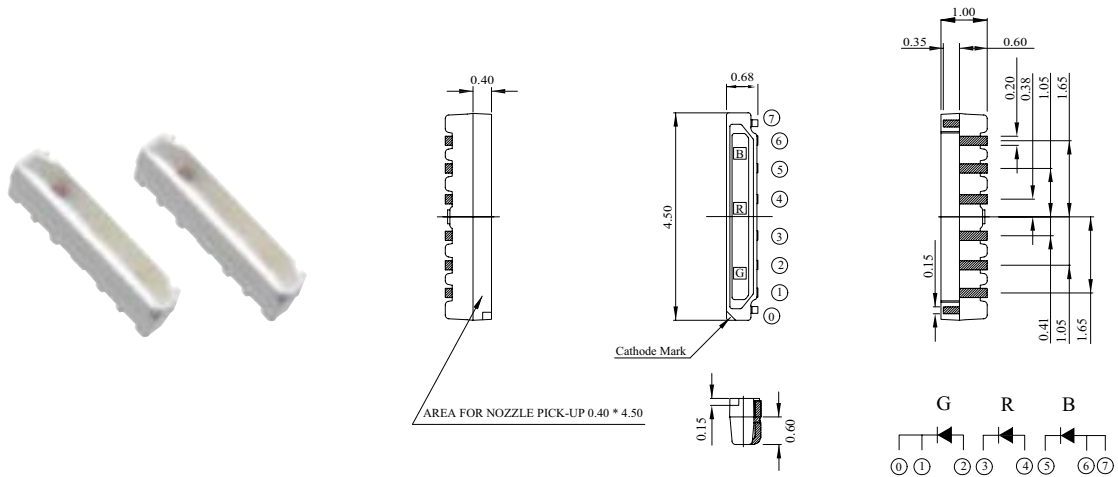


4.5 x 1.25 x 0.8 mm



Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Max. Forward Current I_F (mA)
LTST-008TGKEWT	Red	624	450	120	2	20	30
	True Green	525	710		3.2	20	30

PLCC_Side View_Multi Color



Part No.	Color	λ_c (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_{fmax} (mA)
LTST-006BGEW	■ Red	624	450	120	2	20	30
	■ True Green	525	710		3.2	20	30
	■ Blue	470	180		3.2	20	30
LTST-006GEBW	■ True Green	525	1400	120	3.2	20	30
	■ Red	624	710		2	20	30
	■ Blue	470	350		3.2	20	30

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

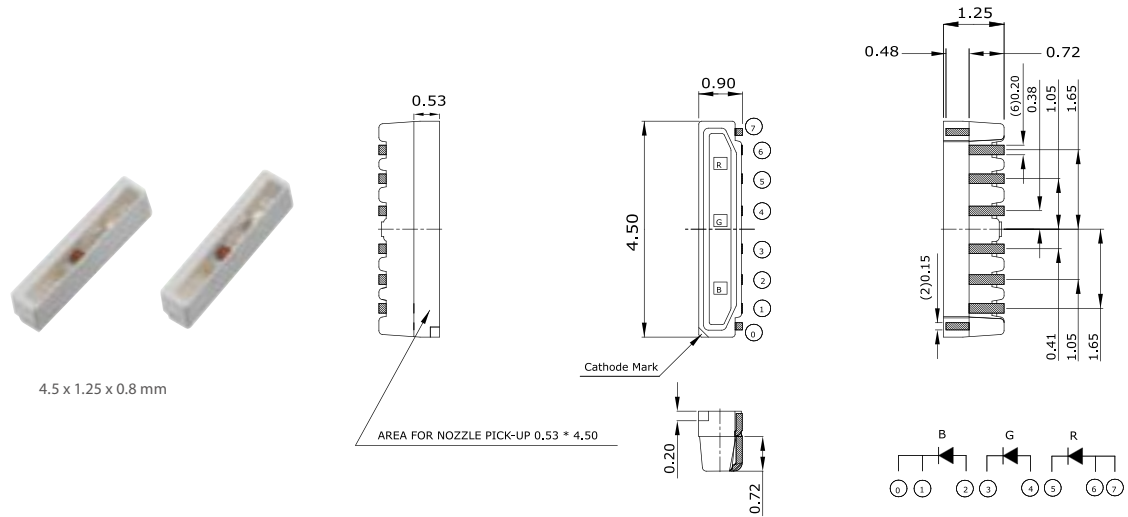
Infrared Emitter and Detector

Optical Sensors

Photocoupler

UV LED

PLCC_Side View_Multi Color



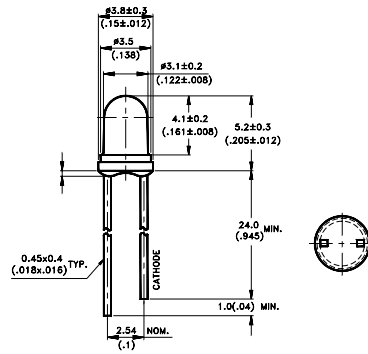
Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Max. Forward Current I_{fmax} (mA)
LTST-008BGEW	Red	624	450	-	120	2	20	30
	True Green	525	710	-		3.2	20	30
	Blue	470	180	-		3.2	20	30
LTST-008GEBW	True Green	525	1400	-	120	3.2	20	30
	Red	624	710	-		2	20	30
	Blue	470	350	-		3.2	20	30
LTST-008EGSW	Red	624	710	-	120	2	20	30
	True Green	525	1120	-		3.2	20	30
	Yellow	589	710	-		2	20	30
LTW-008RGB2-PH1	Blue	465	-	9	120	2.1	25	30
	True Green	525	-			3.2	30	30
	Red	620	-			3.1	15	30

Through Hole Lamp

3mm



3mm Round

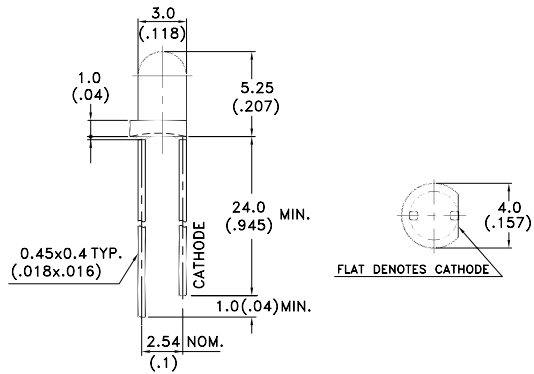


Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTL1CHKEKNN	Red	Water Clear	624	90	280	45	2.1	20
LTL1CHKFKNN	Amber	Water Clear	605	140	450	45	2.1	20
LTL1CHKSKNN	Yellow	Water Clear	587	140	450	45	2.1	20
LTL1CHKGKNN	Yellow Green	Water Clear	572	56	180	45	2.1	20
LTL1CHTGK6	True Green	Water Clear	525	280	900	30	3.2	20
LTL1CHTBK5	Blue	Water Clear	470	140	450	30	3.2	20
LTW-1CHDS4	White	Water Clear	(0.29, 0.28)	1150	5500	45	3.2	20
LTW-1GHCV4	White	Water Clear	(0.29, 0.28)	2500	7000	45	3.2	20
LTW-87HD4BSZ	White	Water Clear	(0.25, 0.21)	85	400	130	3.2	20

3mm



3mm Round

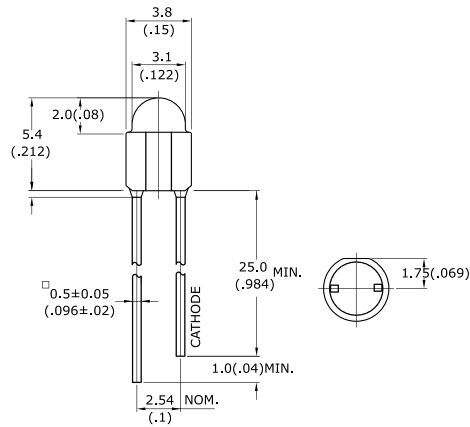


Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTL1NHEG6D	Red	Red Diffused	625	23	110	90	2.1	10
LTL1NHSJ4D	Yellow	Yellow Diffused	590	240	1150	25	2.1	20
LTL1NHGB4D	Yellow Green	Green Diffused	570	11	85	40	2.1	10
LTL1NHTGT4TZ	True Green	Green Transparent	525	1150	3500	45	3.2	20
LTL1NHTBH4J	Blue	White Diffused	470	85	520	45	3.2	20
LTW-1NH DY2	White	Water Clear	(0.27, 0.25)	4200	16000	25	3.2	20
LTW-1NHDR7JW	White	White Diffused	(0.42, 0.40)	1000	2700	70	3.2	20

3mm



3mm Round



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2 $\theta_{1/2}$	Typ. Forward Voltage V _f (V)	Forward Current I _f (mA)
LTL17KRH5D	■ Super Red	Red Diffused	631	110	400	50	2.1	20
LTL17KRL6D	■ Red	Red Diffused	625	310	680	60	2.1	20
LTL17KET3KS	■ Red	Water Clear	624	2500	5500	30	2.1	20
LTL17KFL5D	■ Amber	Amber Diffused	605	140	680	50	2.1	20
LTL17KSL5D	■ Yellow	Yellow Diffused	587	180	880	50	2.1	20
LTL17KGH5D	■ Yellow Green	Green Diffused	571	110	520	50	2.1	20
LTL17KCGP4J	■ True Green	White Diffused	527	680	1900	40	3.3	20
LTL17KTGX3KS	■ True Green	Water Clear	525	5500	9300	30	3.2	20
LTL17KCBH5D	■ Blue	Blue Diffused	470	180	880	50	3.2	20
LTL17KTBS3KS	■ Blue	Water Clear	470	1500	3200	30	3.2	20
LTW-17KDU4Z	□ White	Water Clear	(0.29, 0.28)	1900	5500	45	3.2	20

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and
Detector

Optical Sensors

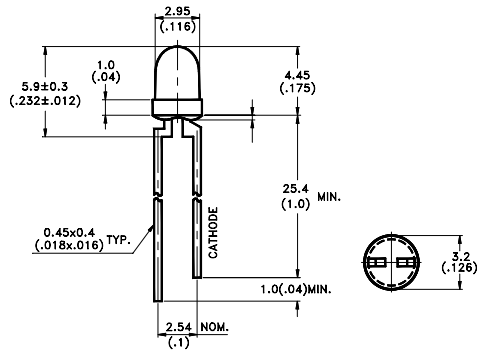
Photocoupler

UV LED

3mm



3mm Round

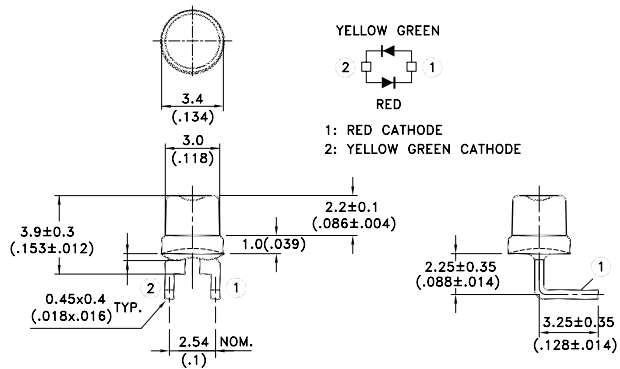


Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTL42NKRKNN	Super Red	Water Clear	631	110	520	56	2.1	20
LTL42NKFKNN	Amber	Water Clear	605	140	680	56	2.1	20
LTL42NKSNN	Yellow	Water Clear	587	180	710	56	2.1	20
LTL42NKGKNN	Yellow Green	Water Clear	571	140	680	56	2.1	20
LTL42TG6N	True Green	Water Clear	530	600	3390	45	3.5	20
LTL42TB6N	Blue	Water Clear	470	310	1500	45	3.5	20
LTW-42NDP4	White	Water Clear	(0.3, 0.3)	400	1900	45	3.3	20

3mm_Dual Color



3mm Round

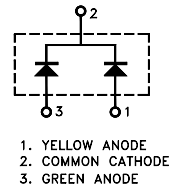
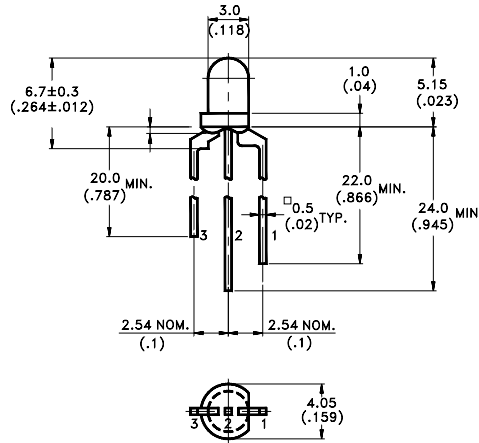


Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTL67HGEJ	Red	White Diffused	624	14	65	110	2.1	20
	Yellow Green		570	14	65		2.1	

3mm_Dual Color

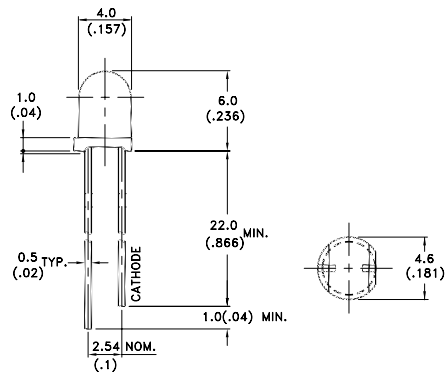


3mm Round



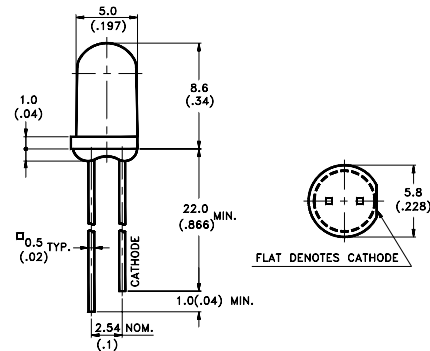
Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTL1BETBEK5-HF	Red	White Diffused	624	400	1900	30	2.1	20
	Blue		470	180	1500			
LTL1BETBYR5	Yellow	White Diffused	592	140	680	30	2.1	20
	Blue		470	110	880			
LTL1BEKVJNN	Red	White Diffused	624	65	250	45	2.1	20
	Yellow Green		572	65	450			
LTW-1BEEDNJZ	Red	White Diffused	624	110	310	30	2.1	20
	White		(0.26, 0.22)	520	1500			
LTW-1BETBKJLC	Blue	White Diffused	470	38	200	30	2.95	5
	White		(0.3, 0.3)	240	1150			

4mm



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V _f (V)	Forward Current I _f (mA)
LTL17HGL4T	Yellow Green	Green Transpand	570	110	520	40	2.1	10
LTW-17HDU6J	White	White Diffused	(0.27, 0.25)	2500	5500	60	3.2	20
LTW-17HDW5J	White	White Diffused	(0.27, 0.24)	5500	9300	55	3.2	20
LTW-17HDY4	White	White Diffused	(0.3, 0.3)	5000	1200	40	3.2	20

5mm

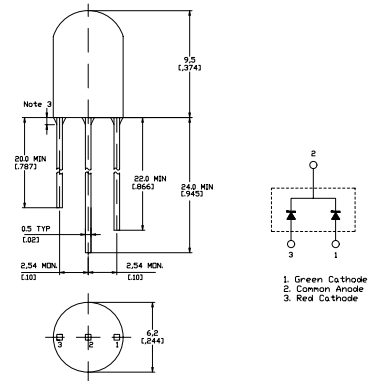


Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V _f (V)	Forward Current I _f (mA)
LTL2R3KRK	Red	Water Clear	631	310	1500	30	2	20
LTL2R3KFK	Orange	Water Clear	605	240	1150	30	2	20
LTL2R3KSK	Yellow	Water Clear	589	180	1150	30	2	20
LTL2R3KGG	Yellow Green	Water Clear	572	85	400	30	2	20
LTL2T3TGK6	True Green	Water Clear	525	1900	9300	30	3.2	20
LTL2T3TBK5	Blue	Water Clear	470	520	3200	30	3.2	20
LTW-2L3DV5	White	Water Clear	(0.29, 0.28)	2500	9300	30	3.2	20
LTW-2S3D8	White	Water Clear	(0.3, 0.3)	13000	29000	15	3.2	20
LTW-2V3DS3	White	Water Clear	(0.3, 0.3)	1150	3200	30	3.2	20
LTW-2W3DRA	White	Water Clear	(0.3, 0.3)	1150	3200	100	3.2	20

5mm_Dual Color



5mm Round

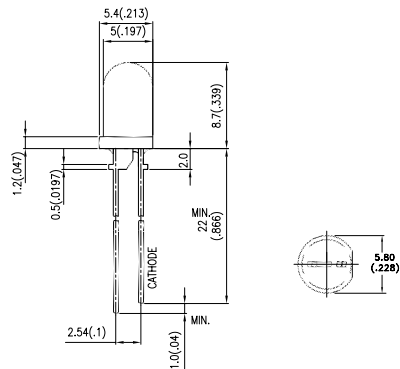


Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2 $\theta_{1/2}$	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTL30EGCBKJ	Yellow Green	White Diffused	571	240	880	30	3.2	20
	Blue		470	140	520		2.1	
LTL30EJ9NN	Yellow	White Diffused	592	38	450	30	2.1	20
	Yellow Green		569	38	450		2.1	
LTL30EKDFGJ	Red	White Diffused	639	110	310	30	2.1	20
	Yellow Green		569	38	85		2.1	

5mm_0.5W

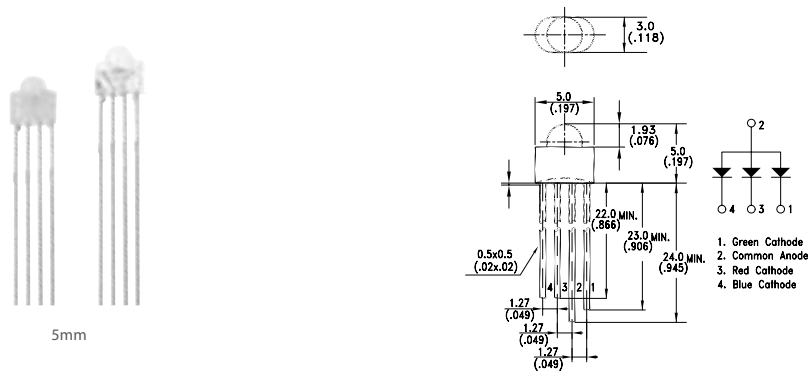


5mm Round



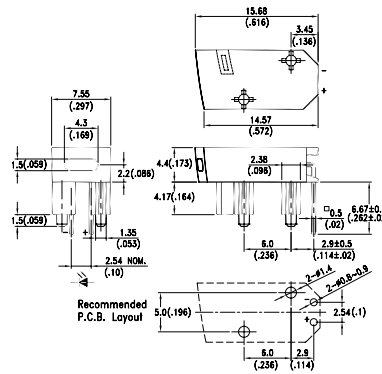
Part No.	Color	Lens Color	CIE (x,y)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2 $\theta_{1/2}$	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTW2H3D51K	White	Water Clear	(0.30, 0.30)	35000	76000	15	3.0	80
LTW2P3D52K	White	Water Clear	(0.30, 0.30)	35000	76000	23	3.0	80
LTW2R3D43K	White	Water Clear	(0.30, 0.30)	27000	59000	30	3.0	80

RGB Lamp



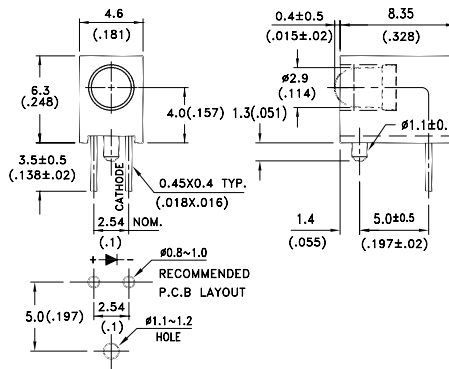
Part No	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTL750RGBHBJ	■ Red	White Diffused	634	140	725	110	2.2	20
	■ True Green		525	170	870		3.2	
	■ Blue		470	38	170		3.2	

Circuit Board Indicator (CBI)_ Single Level



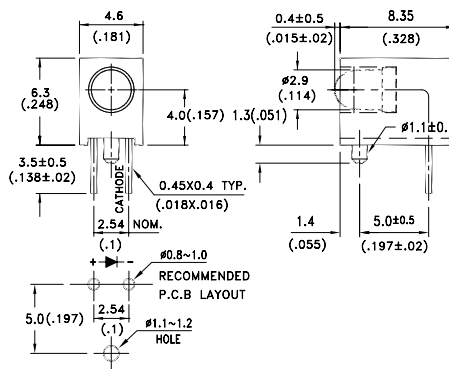
Part No.	Color	Resin Color	CIE(x,y)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTW-R4MLDGDJH234	□ White	White Diffused	(0.3, 0.29)	140	520	H:130 V:120	3.2	20

Circuit Board Indicator (CBI)_Single Level



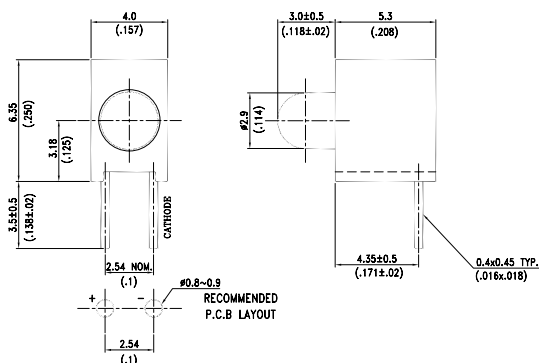
Part No.	Color	Resin Color	CIE (x,y)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2θ _{1/2}	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTW-42NDP4H218	White	Water clear	(0.3, 0.3)	400	1900	40	3.3	20

Circuit Board Indicator (CBI)_Single Level



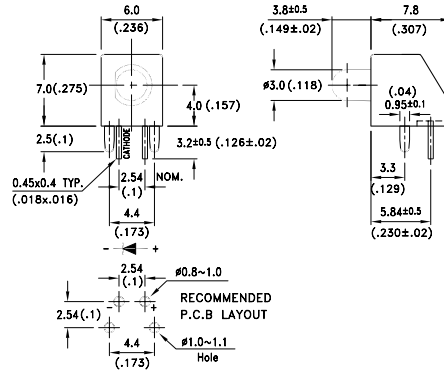
Part No.	Color	Resin Color	λ _d (nm)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2θ _{1/2}	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTL-42NEW8DHBP-1	Red	Red Diffused	625	3.8	30	80	2.0	10

Circuit Board Indicator (CBI)_Single Level



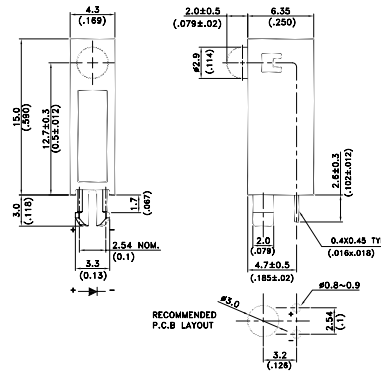
Part No.	Color	Resin Color	λ _d (nm)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2θ _{1/2}	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTL42TG6NH184	True Green	Water clear	525	310	1500	45	3.5	20

Circuit Board Indicator (CBI)_Single Level



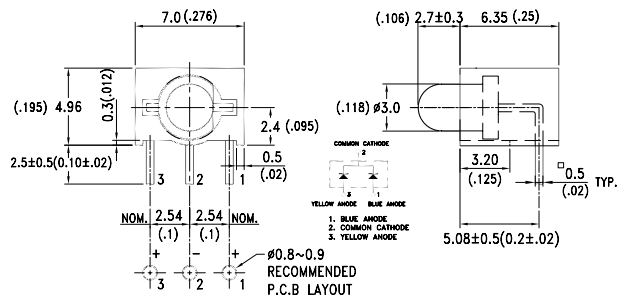
Part No.	Color	Resin Color	CIE (x,y)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2θ _{1/2}	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTW-1NHDR5JH231	White	White Diffused	(0.3, 0.29)	880	3200	65	3.2	20

Circuit Board Indicator (CBI)_Single Level



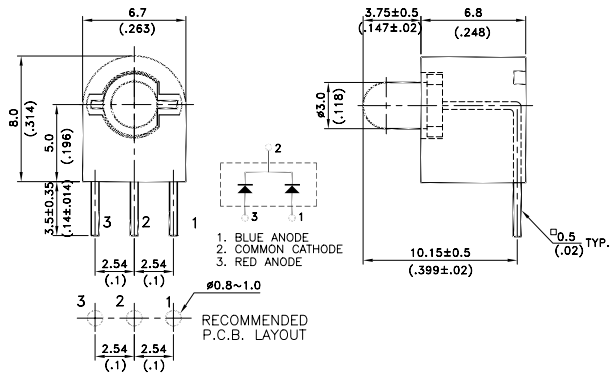
Part No.	Color	Resin Color	CIE (x,y)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2θ _{1/2}	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTW-42NDH8JH227	White	White Diffused	(0.3, 0.3)	85	400	80	3.2	20

Circuit Board Indicator (CBI)_Single Level



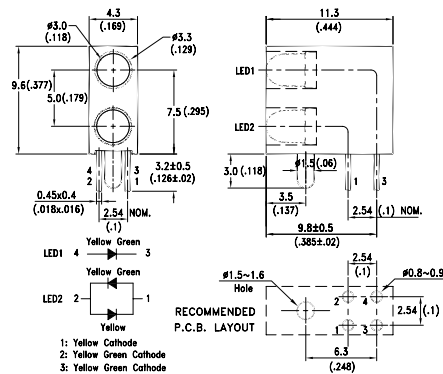
Part No.	Color	Resin Color	λ _d (nm)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2θ _{1/2}	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTL1BESTBKJH185P	Blue	White Diffused	468	12.6	100	75	3.2	20
	Yellow		591				2.1	

Circuit Board Indicator (CBI)_Single Level



Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTL1BETBEK5H149	■ Blue	Water clear	468	180	1500	30	3.5	20
	■ Red		632	400	1900			

Circuit Board Indicator (CBI)_Bi-Level



Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTL-14CM1H183	■ Yellow Green	Color Diffused	565	3	50	60	2.1	20
	■ Yellow		585					

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

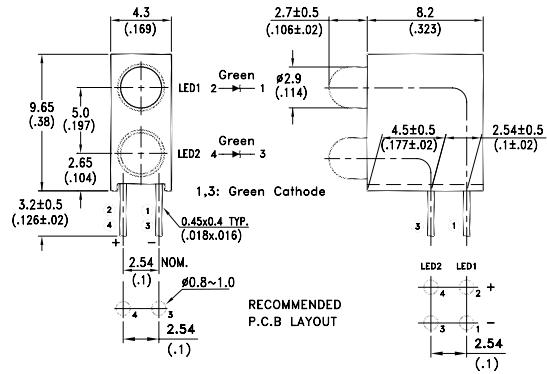
Infrared Emitter and Detector

Optical Sensors

Photocoupler

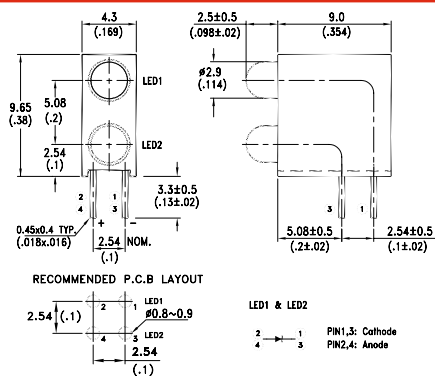
UV LED

Circuit Board Indicator (CBI)_Bi-Level



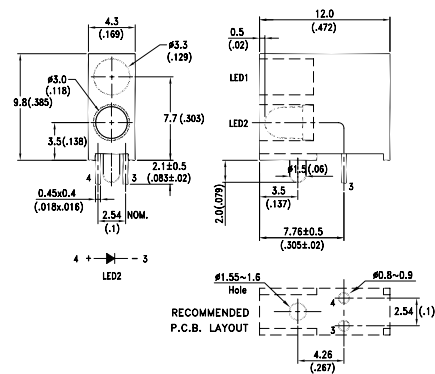
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2 $\theta_{1/2}$	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTL-42M4NH106	Yellow Green	Color Diffused	565	5.6	85	60	2.1	20

Circuit Board Indicator (CBI)_Bi-Level



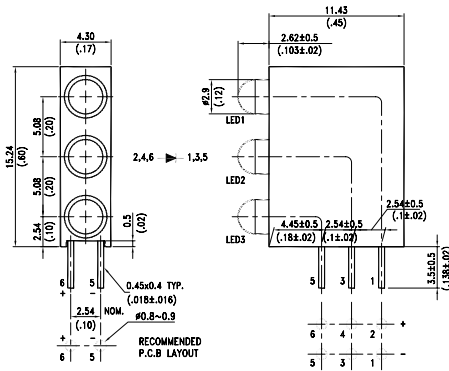
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2 $\theta_{1/2}$	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTL-42NGY8D2H214	Yellow Green	Color Diffused	572	8.7	180	100	2	10

Circuit Board Indicator (CBI)_Bi-Level



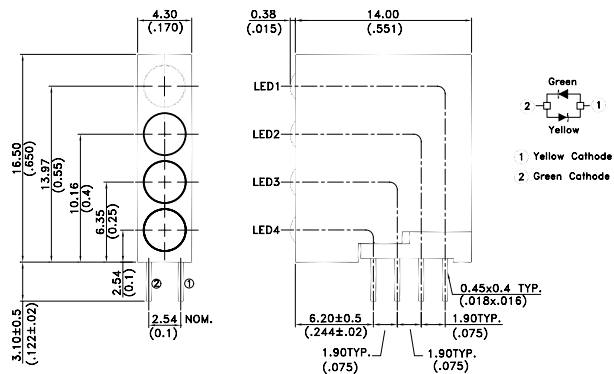
Part No.	Color	Resin Color	CIE (x,y)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2 $\theta_{1/2}$	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTW-42NDH8JH229	White	White Diffused	(0.3, 0.3)	85	400	80	3.2	20

Circuit Board Indicator (CBI)_Tri-Level



Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTL-42M3NHKP	Yellow Green	Green Diffused	569	7	-	60	2.1	20

Circuit Board Indicator (CBI)_Quad-Level



Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTL-14CDJNH79	Yellow Green	Color Diffused	565	3	-	80	2.1	20
	Yellow		585					

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

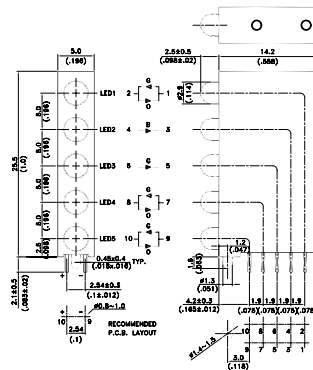
Infrared Emitter and Detector

Optical Sensors

Photocoupler

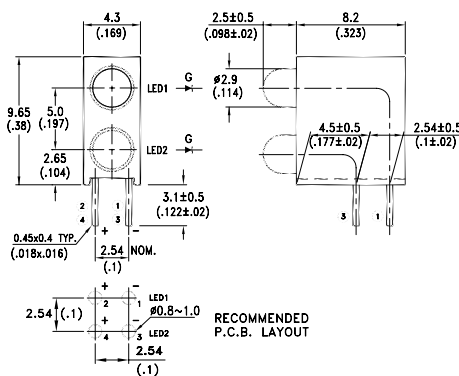
UV LED

Circuit Board Indicator (CBI)_Quin-Level



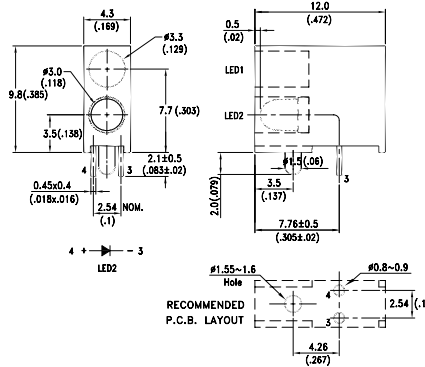
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTL-14CM01H232	Orange	Color Diffused	605	3	1500	100	2.0	
	Yellow		570				2.1	
	Blue		470				3.2	

Circuit Board Indicator (CBI)_PIP



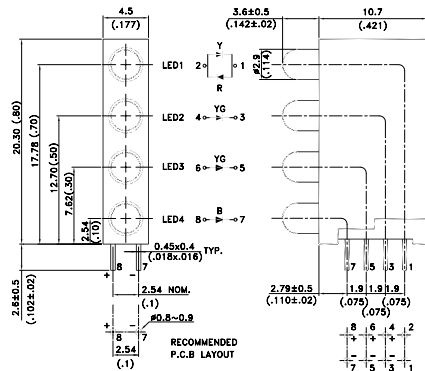
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTL-R42NGYAD2H106	Yellow Green	Color Diffused	569	8.7	50	100	2.0	20

Circuit Board Indicator (CBI)_PIP



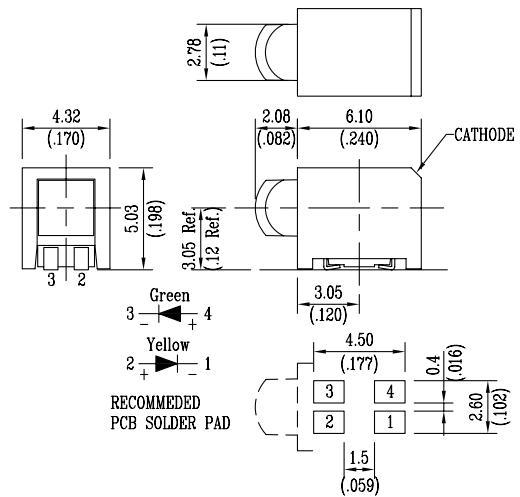
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-R42NGYADH229	█ Yellow Green	Color Diffused	569	8.7	50	100	2.0	20

Circuit Board Indicator (CBI)_PIP



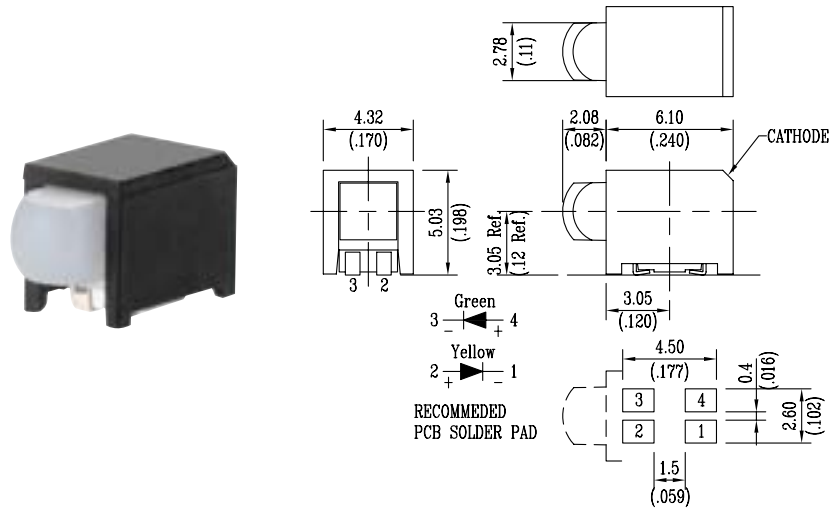
Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL-R42M12NH51	█ Red	Color Diffused	624	8.7	880	60	2.0	20
	█ Yellow Green		569				2.1	
	█ Blue		470				3.2	

Circuit Board Indicators (CBI) with SMD LED



Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTL-M12RG1H300Q	■ Red	White Diffused	630	4.5	50	120	2	20
	■ Yellow Green		570					

Circuit Board Indicators (CBI) with SMD LED



Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTL-M12YG1H300Q	Yellow	White Diffused	590	4.5	50	120	2	20
	Yellow Green		570					

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and Detector

Optical Sensors

Photocoupler

UV LED

LED Display

LED Display Quick View Table

Numeric Display

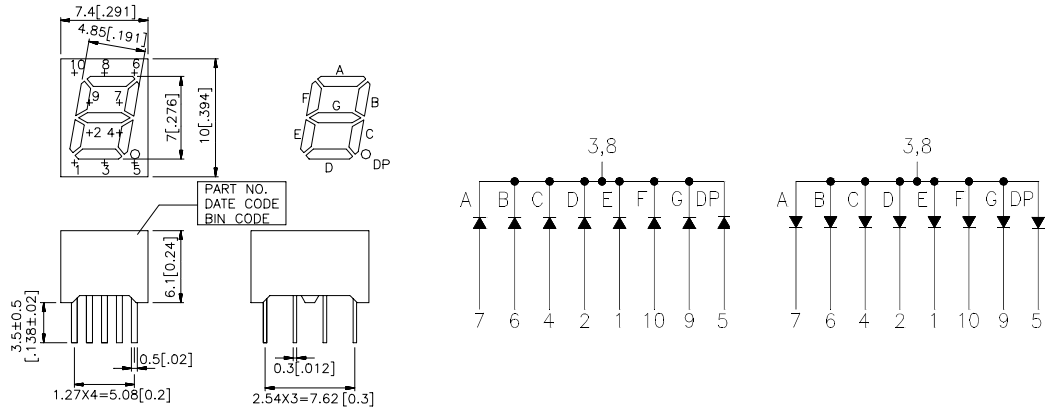
Product Type	Digit	5.08 mm	7 mm	7.62 mm	8 mm	9 mm
Through Hole Type	Single Digit		LTS-2301(CC) LTS-2801(CA)	LTS-3361(CC) LTS-3861(CA)	LTS-3385(CC) LTS-3885(CA)	
	Dual Digits		LTD-2601(CA) LTD-2701(CC)	LTD-322(CC) LTD-323(CA)	-	
	Triple Digits		LTC-2621(CA) LTC-2721(CC)	-	-	
	Quadruple Digits	LTC-26C7 (CA)	LTC-2623(CA) LTC-2723(CC) LTC-2650(CA) LTC-2750(CC)	LTC-3710(CC)		
	Quintuple Digits	LTF-2606 (CA)	LTF-2505 (CA)			
SMD Type	Single Digit	LTS-2307(CC) LTS-2807(CA)	LTS-2306(CC) LTS-2806(CA)	LTS-3386 (CC) LTS-3886 (CA)		
	Dual Digits	LTD-2404 (CA)				
	Triple Digits					

9.14 mm	10 mm	13.2 mm	14.22 mm	18.4 mm	20 mm	25.4 mm	57 mm
LTS-360 (CA) LTS-367 (CC)	LTS-4301(CC) LTS-4801(CA)	LTS-546(CC) LTS-547(CA)	LTS-5x01(CA) LTS-5x03(CC)			LTS-10304(CC) LTS-10804(CA)	LTS-23305(CC) LTS-23805(CA)
	LTD-4608(CA) LTD-4708(CC)	LTD-5250(CA) LTD-5260(CC)	LTD-5x21(CA) LTD-5x23(CC) LTD-6610(CA) LTD-6410(CC)		LTD-8302(CC) LTD-8802(CA)		-
	LTC-4624(CA) LTC-4724(CC)		LTC-561(CA) LTC-571(CC)	LTC-7500(CC)			-
	LTC-4627(CA) LTC-4727(CC) LTC-46D2(CA)		LTC-57C7(CC) LTC-5623(CA) LTC-5723(CC) LTC-5653(CA) LTC-5753(CC)		-		-
	LTS-4312(CC) LTS-4812(CA) LTS-4317(CC) LTS-4817(CA)		LTS-5325(CC) LTS-5825(CA)				
	LTD-4516(CC)		LTD-5435(CA)				
	LTC-46F6 (CA)						

Numeric Display_Single Digit



7mm (.28")
Dual-In-Line
.39" H x .29" W x .24" D

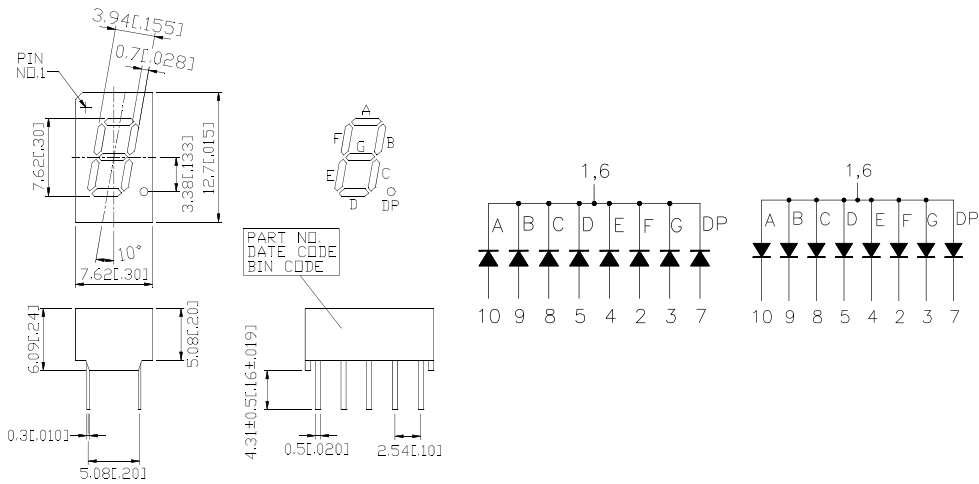


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @ I _f =1mA (μcd)
LTS-2301AJD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	600
LTS-2301AJR	Super Red	631		600
LTS-2301AKF	Orange	605		1200
LTS-2301AKS	Yellow	587		800
LTS-2301AKG	Yellow Green	572		800
LTS-2301ATB	Blue	470		10500
LTS-2801AJD	Hyper Red	639	Common Anode, Rt.Hand Decimal	600
LTS-2801AJR	Super Red	631		600
LTS-2801AKF	Orange	605		1200
LTS-2801AKS	Yellow	587		800
LTS-2801AKG	Yellow Green	572		800
LTS-2801ATB	Blue	470		10500

Numeric Display_Single Digit



7.62mm (.3")
Dual-In-Line
.5" H x .3" W x .2" D

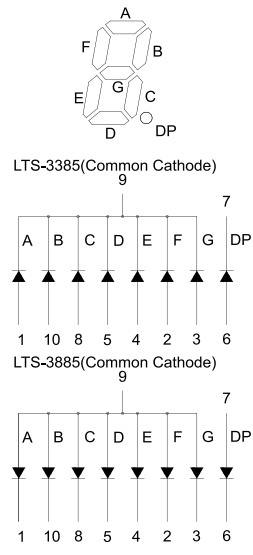
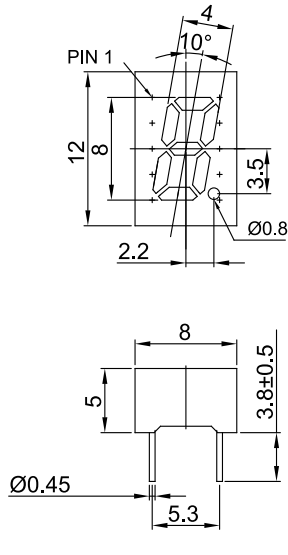


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTS-3361JD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	600
LTS-3361JR	Super Red	631		600
LTS-3361JF	Orange	605		1200
LTS-3361JS	Yellow	587		800
LTS-3361JG	Yellow Green	572		800
LTS-3361TB	Blue	470		10500
LTS-3861JD	Hyper Red	639		Common Anode, Rt.Hand Decimal
LTS-3861JR	Super Red	631	600	
LTS-3861JF	Orange	605	1200	
LTS-3861JS	Yellow	587	800	
LTS-3861JG	Yellow Green	572	800	
LTS-3861TB	Blue	470	10500	

Numeric Display_Single Digit



8mm (.32")
Dual-In-Line
.47" H x .32" W x .2" D

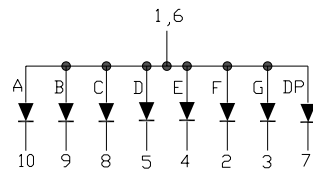
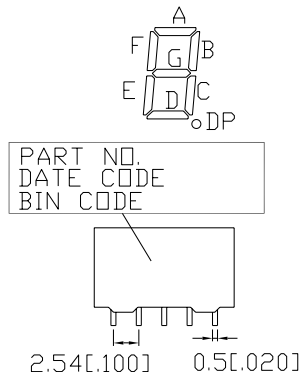
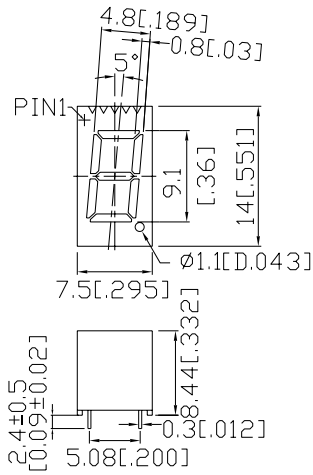


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @ I _f =1mA (μcd)
LTS-3385KD	■ Hyper Red	639	Common Cathode, Rt. Hand Decimal	900
LTS-3385KR	■ Super Red	631		900
LTS-3385KF	■ Orange	605		1200
LTS-3385KS	■ Yellow	587		1200
LTS-3385KG	■ Yellow Green	572		1200
LTS-3385TBE	■ Blue	470		10500
LTS-3885KD	■ Hyper Red	639	Common Anode, Rt. Hand Decimal	900
LTS-3885KR	■ Super Red	631		900
LTS-3885KF	■ Orange	605		1200
LTS-3885KS	■ Yellow	587		1200
LTS-3885KG	■ Yellow Green	572		1200
LTS-3885TBE	■ Blue	470		10500

Numeric Display_Single Digit



9.14mm (.36")
Dual-In-Line
.55" H x .3" W x .33" D

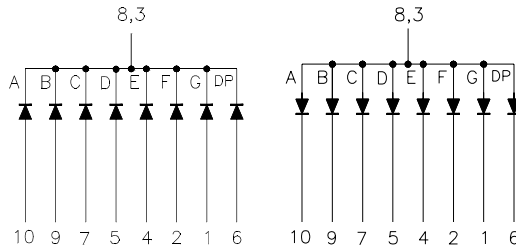
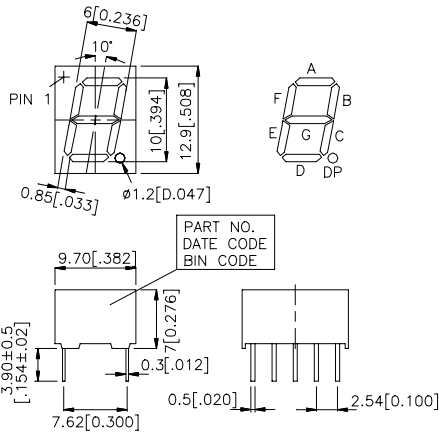


Part No.	Color	λ_0 (nm)	Description	Typ. Luminous Intensity I _v /Seg @ I _f =1mA (μcd)
LTS-360KR	Hyper Red	639	Common Anode, Rt. Hand Decimal	975
LTS-360KD	Super Red	631		975
LTS-360KF	Orange	605		1200
LTS-360KS	Yellow	587		1200
LTS-360KG	Yellow Green	572		1200
LTS-367KR	Hyper Red	639	Common Cathode, Rt. Hand Decimal	900
LTS-367KD	Super Red	631		900
LTS-367KF	Orange	605		1200
LTS-367KS	Yellow	587		1200
LTS-367KG	Yellow Green	572		1200

Numeric Display_Single Digit

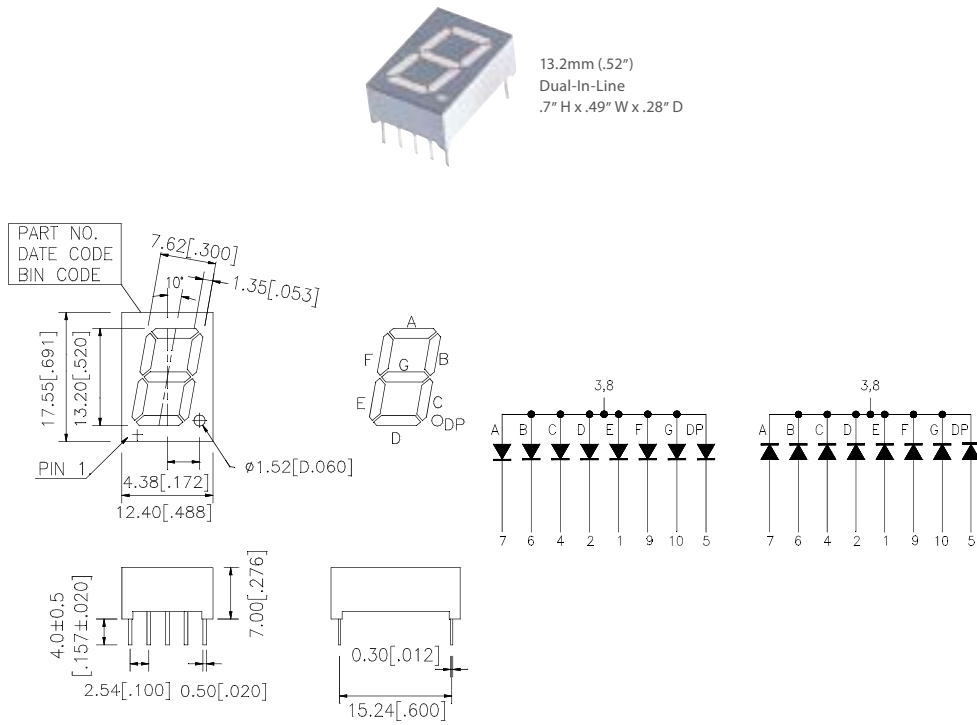


10.0mm (.4")
Dual-In-Line
.5" H x .38" W x .27" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _f =1mA (μcd)
LTS-4301JD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	650
LTS-4301JR	Super Red	631		650
LTS-4301JF	Orange	605		1300
LTS-4301JS	Yellow	587		850
LTS-4301JG	Yellow Green	572		850
LTS-4301TB	Blue	470		10500
LTS-4801JD	Hyper Red	639	Common Anode, Rt.Hand Decimal	650
LTS-4801JR	Super Red	631		650
LTS-4801JF	Orange	605		1300
LTS-4801JS	Yellow	587		850
LTS-4801JG	Yellow Green	572		850
LTS-4801TB	Blue	470		10500

Numeric Display_Single Digit



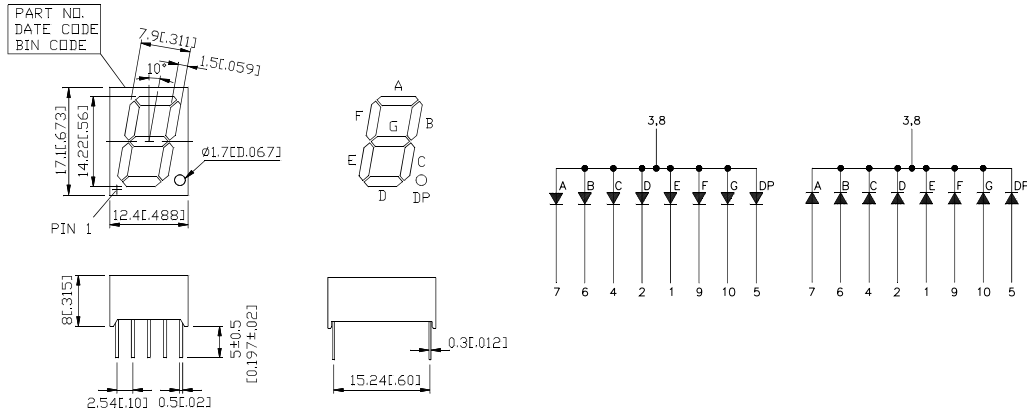
13.2mm (.52")
Dual-In-Line
.7" H x .49" W x .28" D

Part No.	Color	λ_0 (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTS-546AJD	Hyper Red	639	Common Anode, Rt.Hand Decimal	700
LTS-546AKR	Super Red	631		700
LTS-546AKF	Orange	605		1600
LTS-546AKS	Yellow	587		900
LTS-546AJG	Yellow Green	572		900
LTS-546TB	Blue	470	10500	
LTS-547AJD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	700
LTS-547AJR	Super Red	631		700
LTS-547AKF	Orange	605		1600
LTS-547AKS	Yellow	587		900
LTS-547AJG	Yellow Green	572		900
LTS-547TB	Blue	470		10500

Numeric Display_Single Digit



14.22mm (.56")
Dual-In-Line
.67" H x .49" W x .32" D

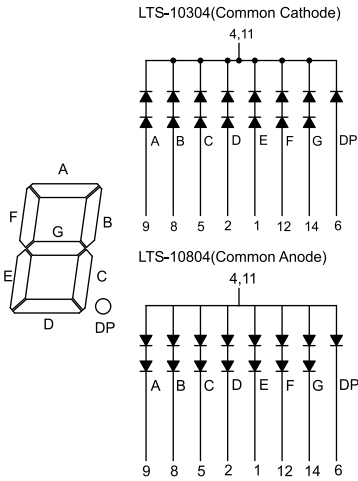
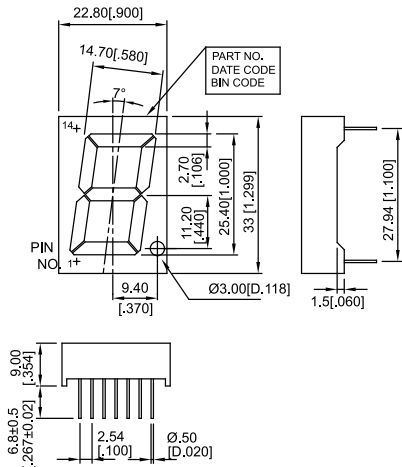


Part No.	Color	λ_0 (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _f =1mA (μcd)
LTS-5001AJD	Hyper Red	639	Common Anode, Rt.Hand Decimal	700
LTS-5001AJR	Super Red	631		700
LTS-5701AKF	Orange	605		1600
LTS-5701AJS	Yellow	587		900
LTS-5601AJG	Yellow Green	572		900
LTS-5501ATB	Blue	470	10500	
LTS-5003AJD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	700
LTS-5003AJR	Super Red	631		700
LTS-5703AKF	Orange	605		1600
LTS-5703AJS	Yellow	587		900
LTS-5603AJG	Yellow Green	572		900
LTS-5503ATB	Blue	470	10500	

Numeric Display_Single Digit



25.4mm (1.0")
Dual-In-Line
.9°00 H x 1.299" W x.354 D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTS-10304KD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	1800
LTS-10304KR	Super Red	631		1800
LTS-10304KF	Orange	605		2400
LTS-10304KS	Yellow	587		2400
LTS-10304KG	Yellow Green	572		2400
LTS-10304TBE	Blue	470		25000
LTS-10804KD	Hyper Red	639	Common Anode, Rt.Hand Decimal	1800
LTS-10804KR	Super Red	631		1800
LTS-10804KF	Orange	605		2400
LTS-10804KS	Yellow	587		2400
LTS-10804KG	Yellow Green	572		2400
LTS-10804TBE	Blue	470		25000

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

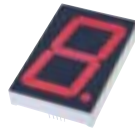
Infrared Emitter and Detector

Optical Sensors

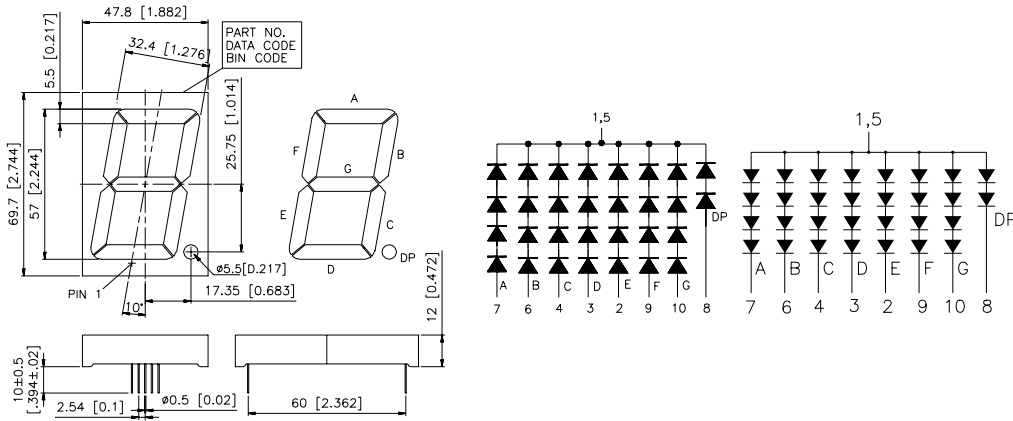
Photocoupler

UV LED

Numeric Display_Single Digit



57mm (2.244")
Dual-In-Line
1.882" H x 2.744" W x .472" D

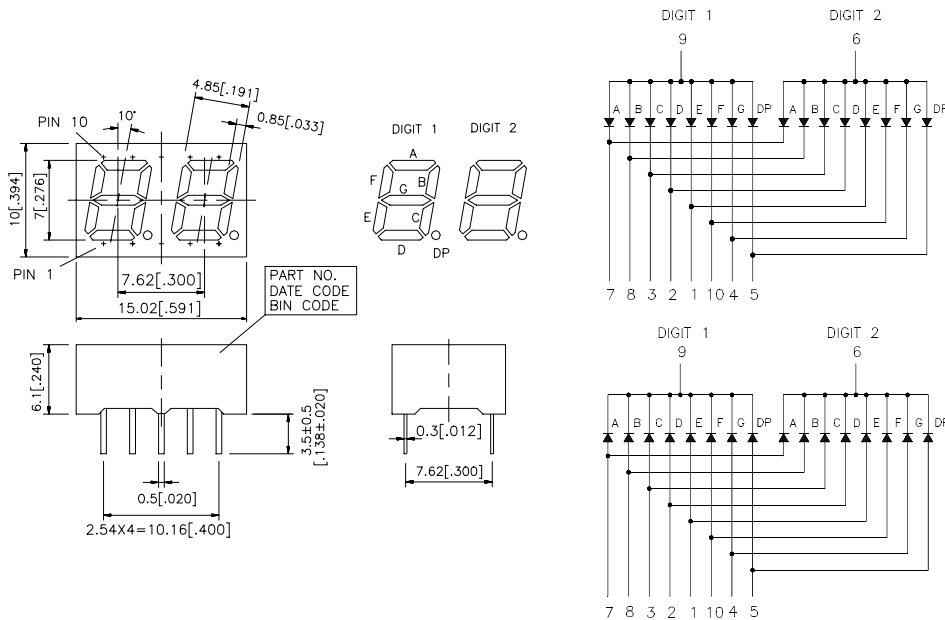


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _c =1mA (μcd)
LTS-23305KD	Hyper Red	639	Common Cathode, Rt. & Lt. Hand Decimal	10
LTS-23305KR	Super Red	631		10
LTS-23305KF	Orange	605		10
LTS-23305KS	Yellow	587		10
LTS-23305JG	Yellow Green	572		10
LTS-23805KD	Hyper Red	639	Common Anode, Rt. & Lt. Hand Decimal	10
LTS-23805KR	Super Red	631		10
LTS-23805KF	Orange	605		10
LTS-23805KS	Yellow	587		10
LTS-23805JG	Yellow Green	572		10

Numeric Display_Dual Digits



7.0mm (.28")
Dual-In-Line
.39" H x .59" W x .24" D

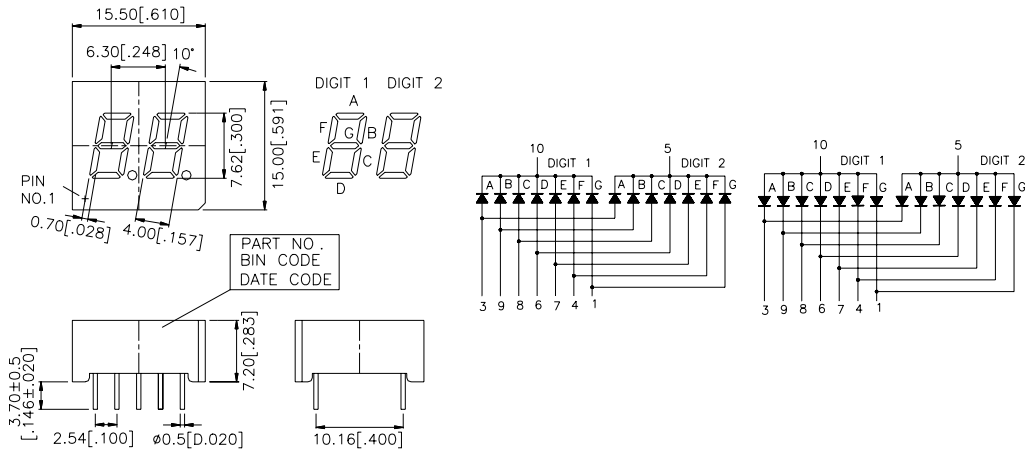


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTD-2601JD	Hyper Red	639	Duplex Common Anode, Rt.Hand Decimal	600
LTD-2601KR	Super Red	631		600
LTD-2601KF	Orange	605		1200
LTD-2601KS	Yellow	587		800
LTD-2601JG	Yellow Green	572		800
LTD-2601TB	Blue	470	7000	
LTD-2701JD	Hyper Red	639	Duplex Common Cathode, Rt.Hand Decimal	600
LTD-2701KR	Super Red	631		600
LTD-2701KF	Orange	605		1200
LTD-2701KS	Yellow	587		800
LTD-2701JG	Yellow Green	572		800
LTD-2701TB	Blue	470	7000	

Numeric Display_Dual Digits



7.62mm (.3")
Dual-In-Line
.59" H x .62" W x .29" D

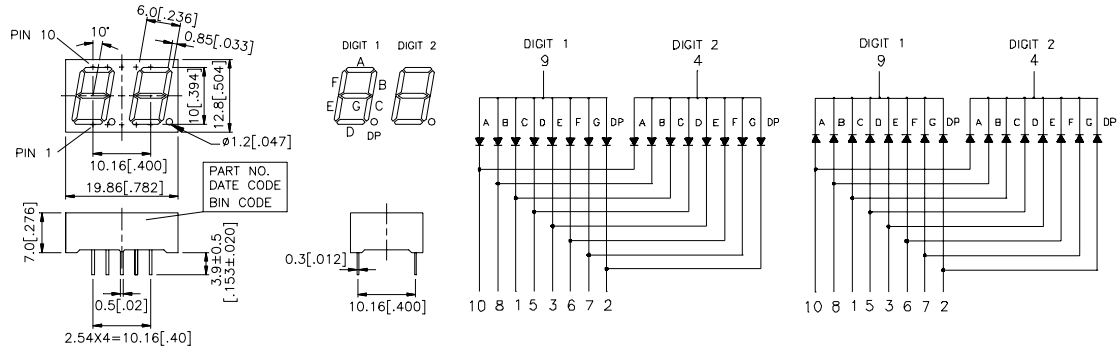


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _f =1 mA (μcd)
LTD-322JD	Hyper Red	639	Duplex Common Cathode, Rt.Hand Decimal	600
LTD-322KR	Super Red	631		600
LTD-322KF	Orange	605		1200
LTD-322KS	Yellow	587		800
LTD-322JG	Yellow Green	572		800
LTD-322TB	Blue	470		7000
LTD-323JD	Hyper Red	639	Duplex Common Anode, Rt.Hand Decimal	600
LTD-323KR	Super Red	631		600
LTD-323KF	Orange	605		1200
LTD-323KS	Yellow	587		800
LTD-323JG	Yellow Green	572		800
LTD-323TB	Blue	470		7000

Numeric Display_Dual Digits



10.0mm (.4")
Dual-In-Line
.5" H x .78" W x .28" D

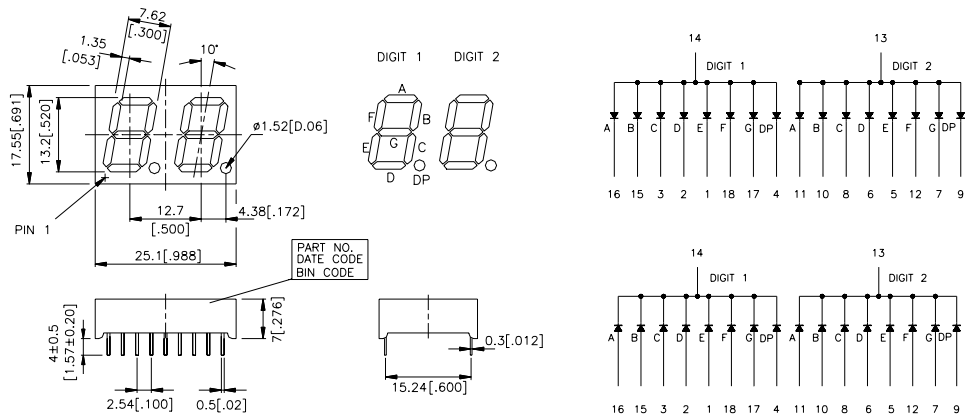


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTD-4608JD	Hyper Red	639	Duplex Common Anode, Rt.Hand Decimal	650
LTD-4608KR	Super Red	631		650
LTD-4608KF	Orange	605		1300
LTD-4608JS	Yellow	587		850
LTD-4608JG	Yellow Green	572		850
LTD-4608TB	Blue	470	7000	
LTD-4708JD	Hyper Red	639	Duplex Common Cathode, Rt.Hand Decimal	650
LTD-4708KR	Super Red	631		650
LTD-4708KF	Orange	605		1300
LTD-4708JS	Yellow	587		850
LTD-4708JG	Yellow Green	572		850
LTD-4708TB	Blue	470		7000

Numeric Display_Dual Digits



13.2mm (.52")
Dual-In-Line
.69" H x 99" W x .28" D

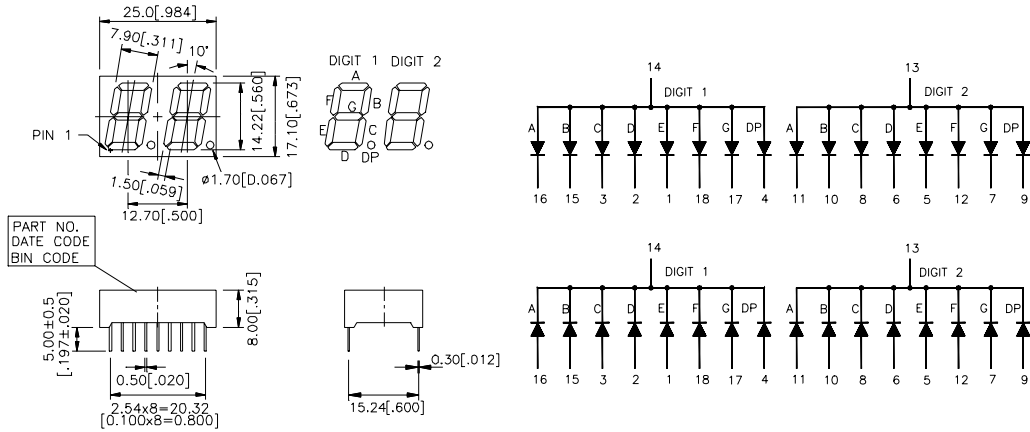


Part No.	Color	λ_0 (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _f =1 mA (μcd)
LTD-5250JD	Hyper Red	639	Common Anode, Rt.Hand Decimal	700
LTD-5250KR	Super Red	631		700
LTD-5250KF	Orange	605		1600
LTD-5250KS	Yellow	587		900
LTD-5250KG	Yellow Green	572		900
LTD-5250TB	Blue	470		7000
LTD-5260KD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	700
LTD-5260KR	Super Red	631		700
LTD-5260KF	Orange	605		1600
LTD-5260KS	Yellow	587		900
LTD-5260KG	Yellow Green	572		900
LTD-5260TB	Blue	470		7000

Numeric Display_Dual Digits



14.2mm (.56")
Dual-In-Line
.67" H x .98" W x .32" D

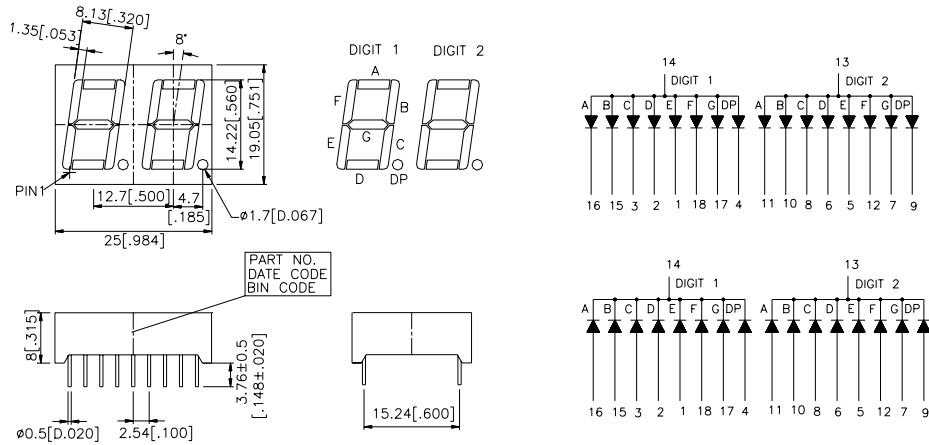


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTD-5021AJD	Hyper Red	639	Common Anode, Rt.Hand Decimal	700
LTD-5521AJR	Super Red	631		700
LTD-5721AKF	Orange	605		1600
LTD-5721AJS	Yellow	587		900
LTD-5621AJG	Yellow Green	572		900
LTD-5021TB	Blue	470	Common Cathode, Rt.Hand Decimal	7000
LTD-5023AJD	Hyper Red	639		700
LTD-5523AJR	Super Red	631		700
LTD-5723AKF	Orange	605		1600
LTD-5723AJS	Yellow	587		900
LTD-5623AJG	Yellow Green	572	900	
LTD-5023TB	Blue	470	7000	

Numeric Display_Dual Digits



14.22mm (.56")
Dual-In-Line
.75" H x .98" W x .32" D

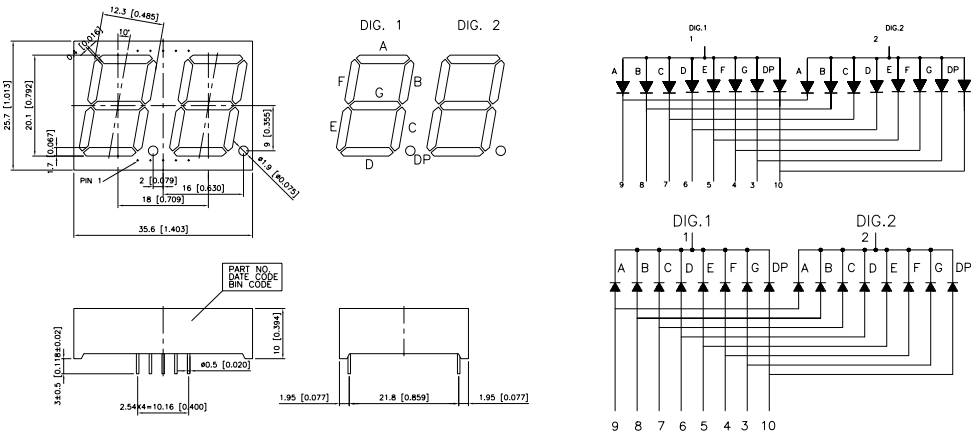


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _c =1mA (μcd)
LTD-6410KD	Hyper Red	639	Common Cathode, Rt.Hand Decimal	700
LTD-6410KR	Super Red	631		700
LTD-6410KF	Orange	605		1600
LTD-6410KS	Yellow	587		900
LTD-6410KG	Yellow Green	572		900
LTD-6410TB	Blue	470		7000
LTD-6610KD	Hyper Red	639	Common Anode, Rt.Hand Decimal	700
LTD-6610KR	Super Red	631		700
LTD-6610KF	Orange	605		1600
LTD-6610KS	Yellow	587		900
LTD-6610KG	Yellow Green	572		900
LTD-6610TB	Blue	470		7000

Numeric Display_Dual Digits

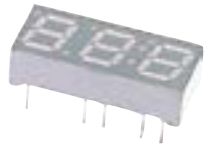


20.1mm (.79")
Dual-In-Line
1.0" H x 1.4" W x .39" D

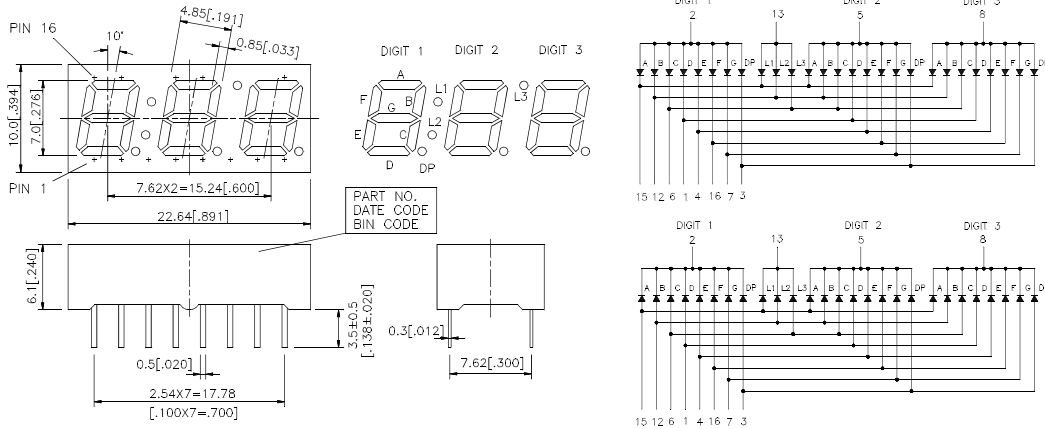


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTD-8302KR	Hyper Red	639	Duplex Common Cathode, Rt.Hand Decimal	1050
LTD-8302KF	Super Red	631		1600
LTD-8302KS	Orange	605		900
LTD-8302KG	Yellow	587		900
LTD-8302KD	Yellow Green	572		1500
LTD-8302TB	Blue	470		7000
LTD-8802KR	Hyper Red	639	Duplex Common Anode, Rt.Hand Decimal	1050
LTD-8802KF	Super Red	631		1600
LTD-8802KS	Orange	605		900
LTD-8802KG	Yellow	587		900
LTD-8802KD	Yellow Green	572		1500
LTD-8802TB	Blue	470		7000

Numeric Display_Triple Digits



7.0mm (.28")
Dual-In-Line
.39" H x .89" W x .24" D

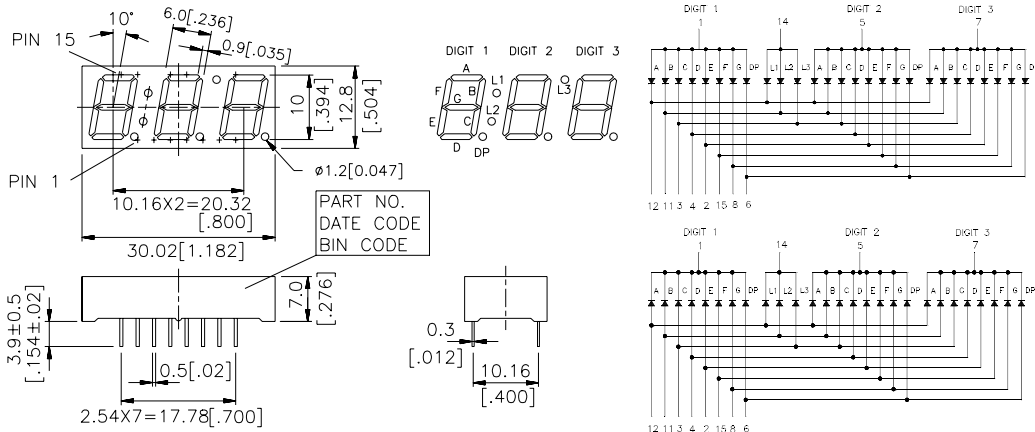


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _f =1mA (μcd)
LTC-2621JD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	600
LTC-2621JR	Super Red	631		600
LTC-2621KF	Orange	605		1200
LTC-2621KS	Yellow	587		800
LTC-2621JG	Yellow Green	572		800
LTC-2621TB	Blue	470		7000
LTC-2721JD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	700
LTC-2721JR	Super Red	631		700
LTC-2721KF	Orange	605		1600
LTC-2721KS	Yellow	587		900
LTC-2721JG	Yellow Green	572		900
LTC-2721TB	Blue	470		7000

Numeric Display_Triple Digits



10.0mm (.40")
Dual-In-Line
.5" H x 1.18" W x .276" D

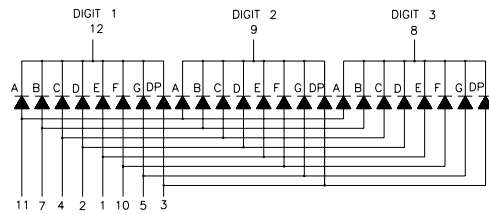
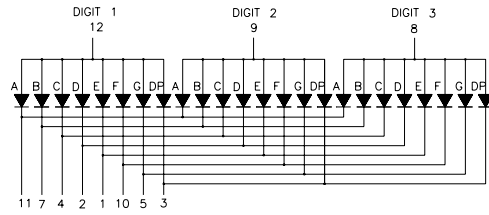
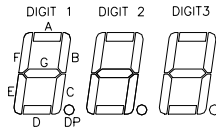
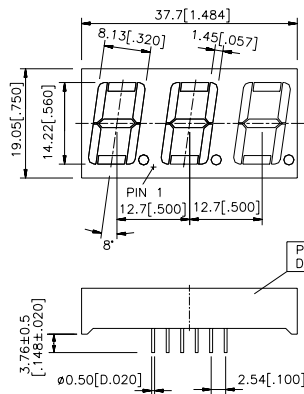


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @ I _f =1 mA (μcd)
LTC-4624JD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	650
LTC-4624JR	Super Red	631		650
LTC-4624KF	Orange	605		1300
LTC-4624KS	Yellow	587		850
LTC-4624JG	Yellow Green	572		850
LTC-4624TB	Blue	470		7000
LTC-4724JD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	650
LTC-4724JR	Super Red	631		650
LTC-4724KF	Orange	605		1300
LTC-4724KS	Yellow	587		850
LTC-4724JG	Yellow Green	572		850
LTC-4724TB	Blue	470		7000

Numeric Display_ Triple Digits

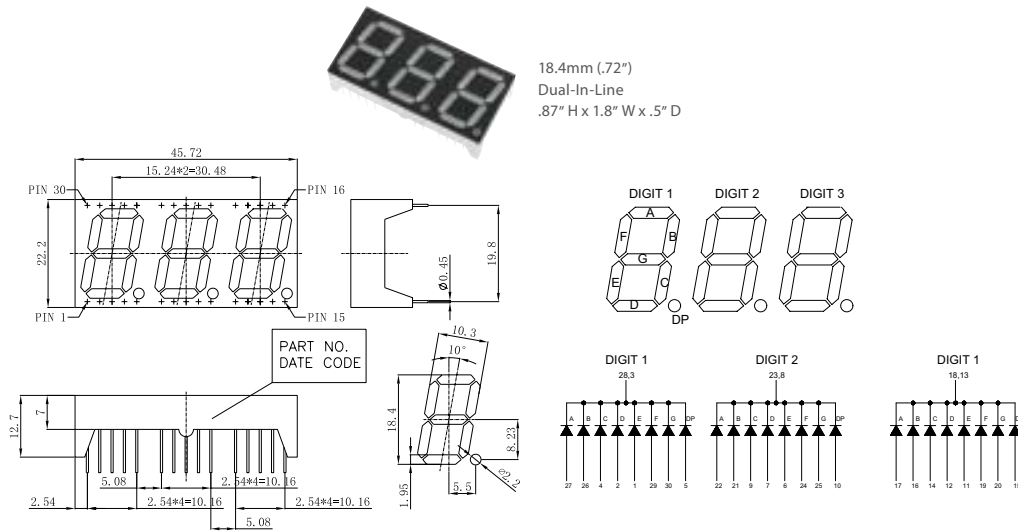


14.22mm (.56")
Dual-In-Line
.75" H x 1.5" W x .32" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _c =1mA (μcd)
LTC-561JD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	700
LTC-561KR	Super Red	631		700
LTC-561KF	Orange	605		1600
LTC-561KS	Yellow	587		900
LTC-561JG	Yellow Green	572		900
LTC-561TB	Blue	470	13500	
LTC-571JD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	700
LTC-571KR	Super Red	631		700
LTC-571KF	Orange	605		1600
LTC-571KS	Yellow	587		900
LTC-571JG	Yellow Green	572		900
LTC-571TB	Blue	470	13500	

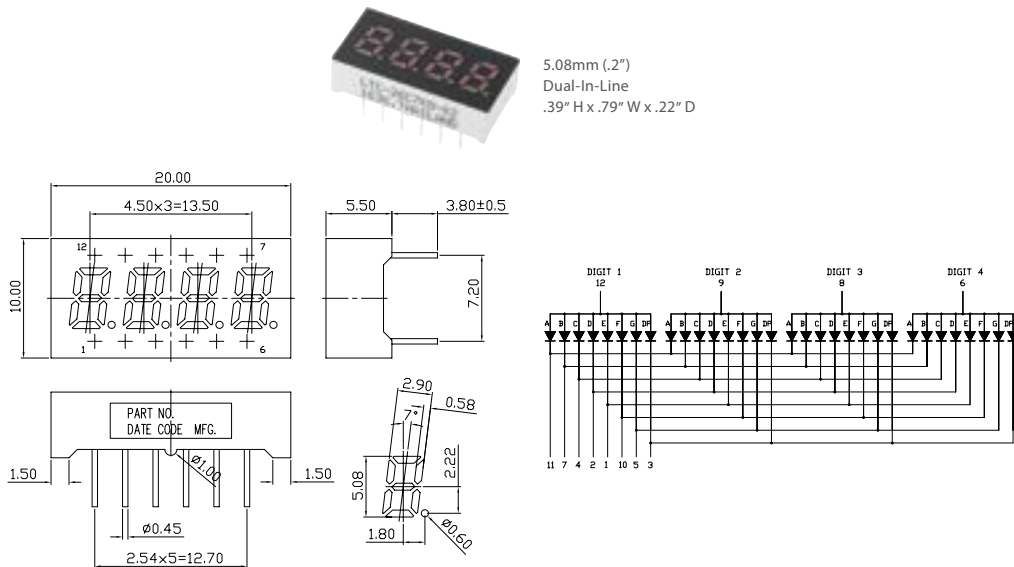
Numeric Display_ Triple Digits



18.4mm (.72")
Dual-In-Line
.87" H x 1.8" W x .5" D

Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTC-7500KD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	650
LTC-7500KR	Super Red	631		650
LTC-7500KF	Orange	605		650
LTC-7500KS	Yellow	587		650
LTC-7500KG	Yellow Green	572		650

Numeric Display_ Quadruple Digits



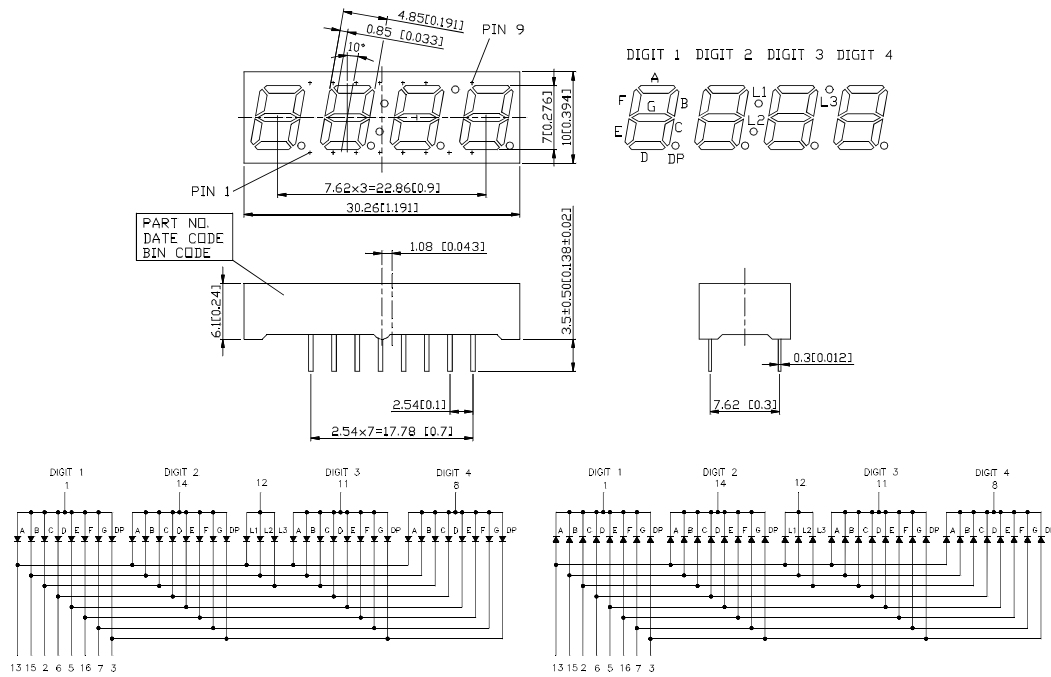
5.08mm (.2")
Dual-In-Line
.39" H x .79" W x .22" D

Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTC-26C7KD-02	Hyper Red	639	Multiplex Common Anode	900

Numeric Display_Quadruple Digits

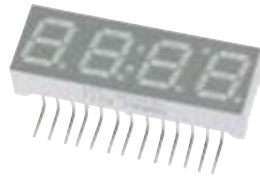


7.0mm (.28")
Dual-In-Line
.39" H x 1.19" W x .24" D

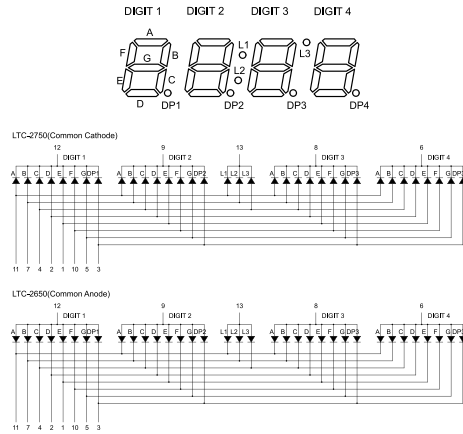
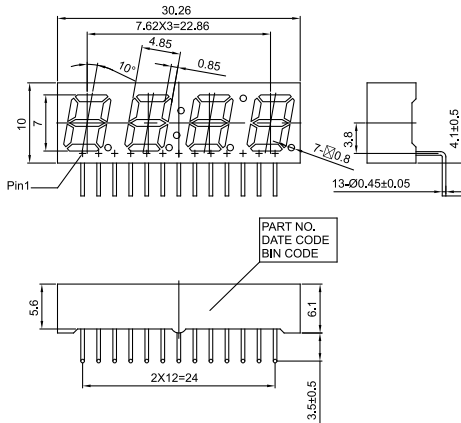


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _f =1mA (μcd)
LTC-2623JD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	600
LTC-2623JR	Super Red	631		600
LTC-2623JF	Orange	605		1200
LTC-2623JS	Yellow	587		800
LTC-2623JG	Yellow Green	572		800
LTC-2623TB	Blue	470		8500
LTC-2723JD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	600
LTC-2723JR	Super Red	631		600
LTC-2723JF	Orange	605		1200
LTC-2723JS	Yellow	587		800
LTC-2723JG	Yellow Green	572		800
LTC-2723TB	Blue	470		8500

Numeric Display_Quadruple Digits



7.0mm (.28")
Dual-In-Line
.39" H x 1.19" W x .24" D

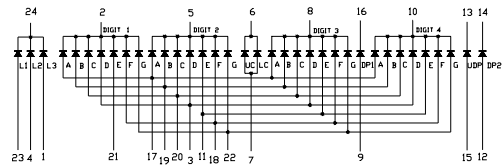
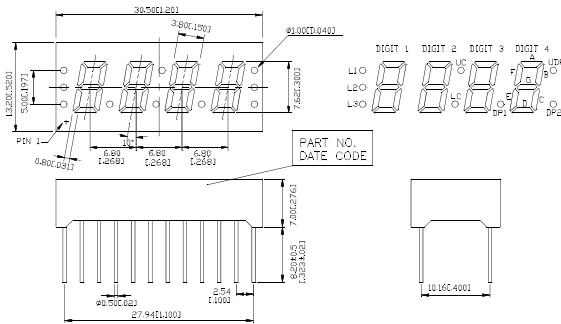


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @ I _f =1mA (μcd)
LTC-2650KD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	380
LTC-2650KR	Super Red	631		380
LTC-2650KF	Orange	605		415
LTC-2650KS	Yellow	587		415
LTC-2650JG	Yellow Green	572		415
LTC-2650TBE	Blue	470		8500
LTC-2750KD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	380
LTC-2750KR	Super Red	631		380
LTC-2750KF	Orange	605		415
LTC-2750KS	Yellow	587		415
LTC-2750JG	Yellow Green	572		415
LTC-2750TBE	Blue	470		8500

Numeric Display_Quadruple Digits



Epoxy Type
7.62mm (.30")
Dual-In-Line
.52" H x 1.2" W x .28" D

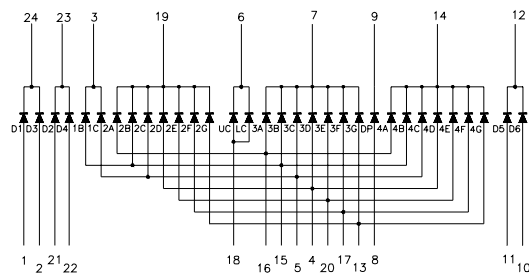
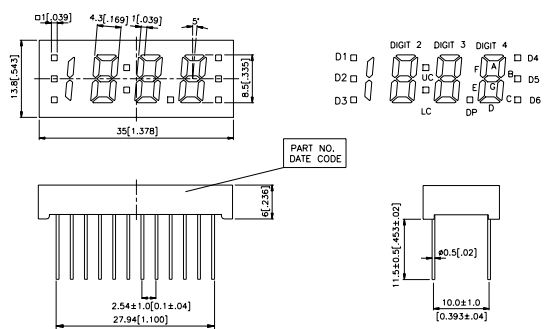


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTC-3710KD	Red	640	Multiplex Common Cathode, Full Feature	800
LTC-3710KG	Yellow Green	572		600

Numeric Display_Quadruple Digits

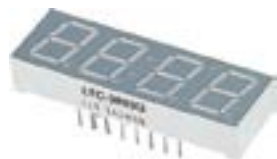


Epoxy Type
8.5mm (.34")
Dual-In-Line
.54" H x 1.38" W x .24" D

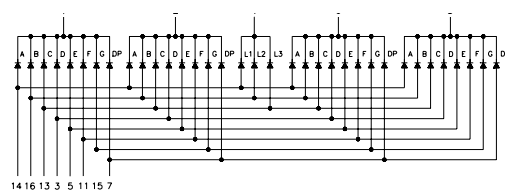
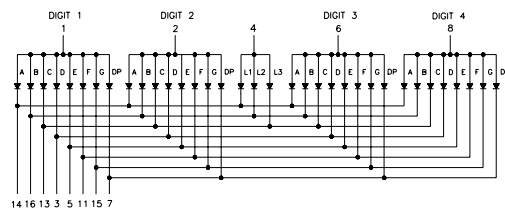
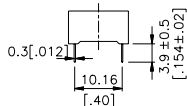
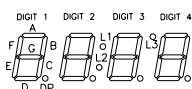
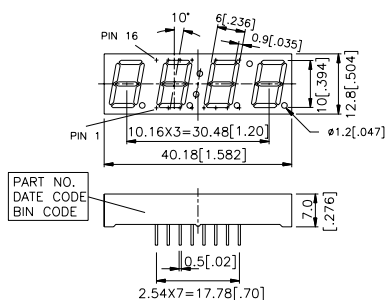


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTC-3718KD	Red	640	Multiplex Common Cathode, Full Feature	850
LTC-3718KG	Yellow Green	572		640

Numeric Display_Quadruple Digits



10.0mm (.40")
Dual-In-Line
.5" H x 1.58" W x .28" D



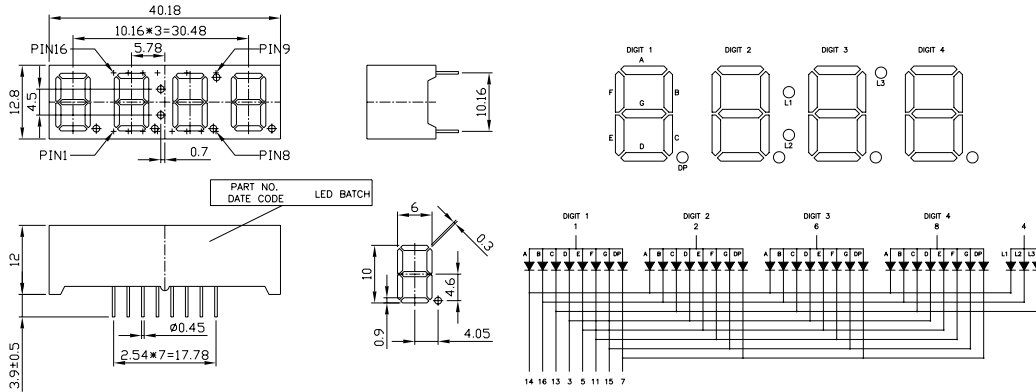
Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTC-4627JD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	650
LTC-4627JR	Super Red	631		650
LTC-4627JF	Orange	605		850
LTC-4627JS	Yellow	587		850
LTC-4627JG	Yellow Green	572		850
LTC-4627TB	Blue	470		11500
LTC-4727JD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	650
LTC-4727JR	Super Red	631		650
LTC-4727JF	Orange	605		850
LTC-4727JS	Yellow	587		850
LTC-4727JG	Yellow Green	572		850
LTC-4727TB	Blue	470		11500

Flash LED
SMD LED
Through Hole Lamp
LED Display
Automotive LED
Signage LED
Lighting LED
Infrared Emitter and Detector
Optical Sensors
Photocoupler
UV LED

Numeric Display_Quadruple Digits



10mm (.39")
Dual-In-Line
.63" H x 1.73" W x .15" D

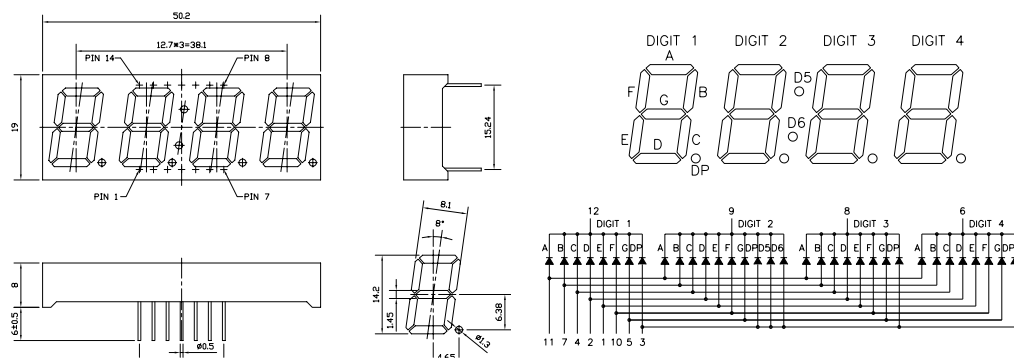


Part No.	Color	CIE (x,y)	Description	Typ. Luminous Intensity Iv/Seg @I _f =5mA (μcd)
LTC-46D2SW	White	(0.294,0.286)	Multiplex Common Anode	165000

Numeric Display_Quadruple Digits



14.2mm (.56")
Dual-In-Line
.75" H x 1.98" W x .32" D

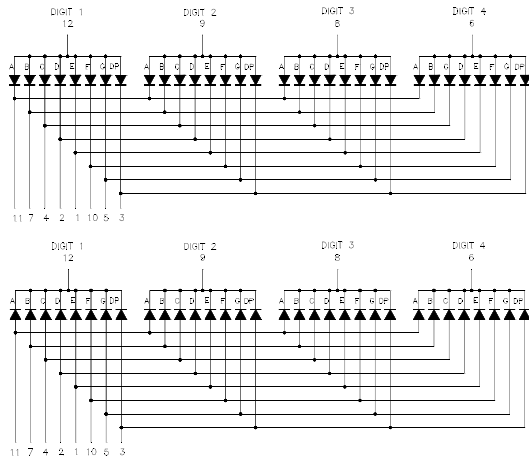
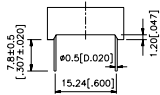
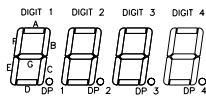
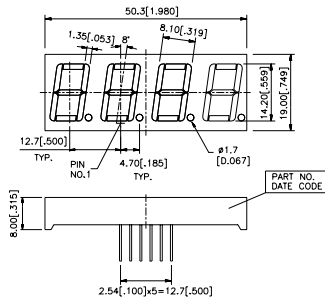


Part No.	Color	λ _d (nm)	Description	Typ. Luminous Intensity Iv/Seg @I _f =10mA (μcd)
LTC-57C7KD	Hyper Red	639	Multiplex Common Cathode	700
LTC-57C7KR	Super Red	631		700
LTC-57C7KF	Orange	605		1600
LTC-57C7KS	Yellow	587		900
LTC-57C7KG	Yellow Green	572		900

Numeric Display_ Quadruple Digits



14.22mm (.56")
Dual-In-Line
.75" H x 1.98" W x .32" D

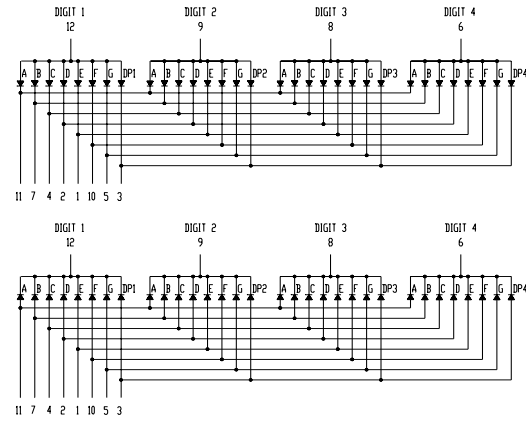
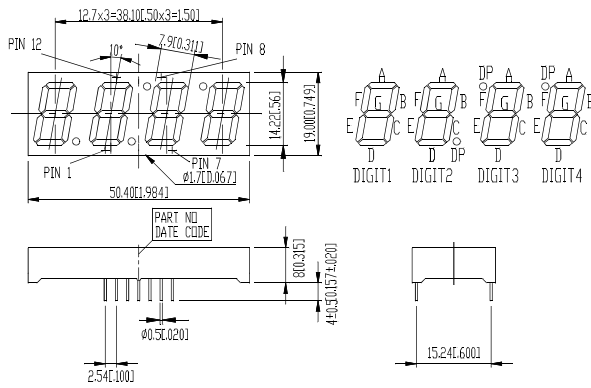


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @ I _f =1mA (μcd)
LTC-5623JD	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	700
LTC-5623KR	Super Red	631		700
LTC-5623KF	Orange	605		1600
LTC-5623KS	Yellow	587		900
LTC-5623JG	Yellow Green	572		900
LTC-5623TB	Blue	470	13500	
LTC-5723JD	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	700
LTC-5723KR	Super Red	631		700
LTC-5723KF	Orange	605		1600
LTC-5723KS	Yellow	587		900
LTC-5723JG	Yellow Green	572		900
LTC-5723TB	Blue	470	13500	

Numeric Display_Quadruple Digits

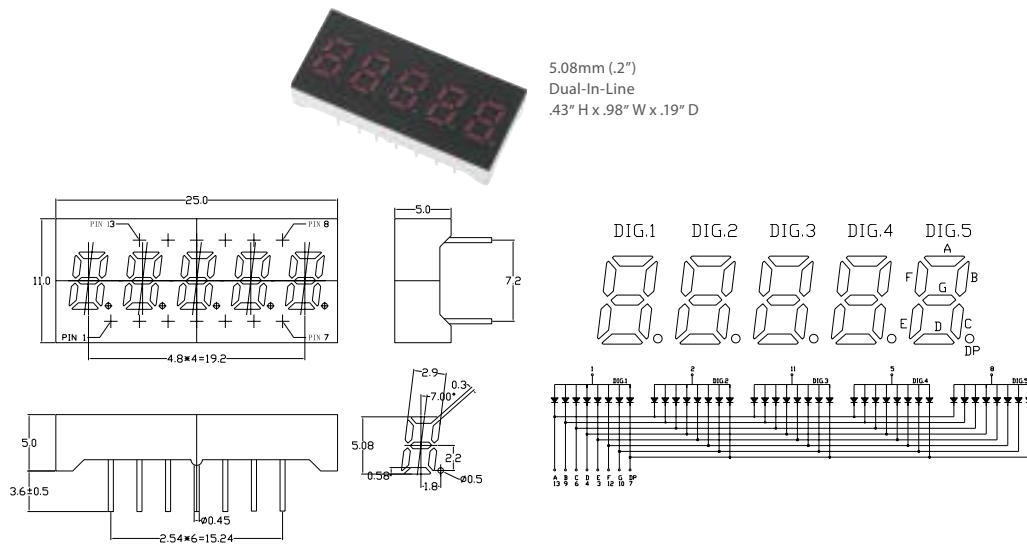


14.22mm (.56")
Dual-In-Line
.75" H x 1.98" W x .32" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTC-5653KD-01	Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	700
LTC-5653KR-01	Super Red	631		700
LTC-5653KF-01	Orange	605		1600
LTC-5653KS-01	Yellow	587		900
LTC-5653KG-01	Yellow Green	572		900
LTC-5653TB-01	Blue	470		13500
LTC-5753KD-01	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	700
LTC-5753KR-01	Super Red	631		700
LTC-5753KF-01	Orange	605		1600
LTC-5753KS-01	Yellow	587		900
LTC-5753KG-01	Yellow Green	572		900
LTC-5753TB-01	Blue	470		13500

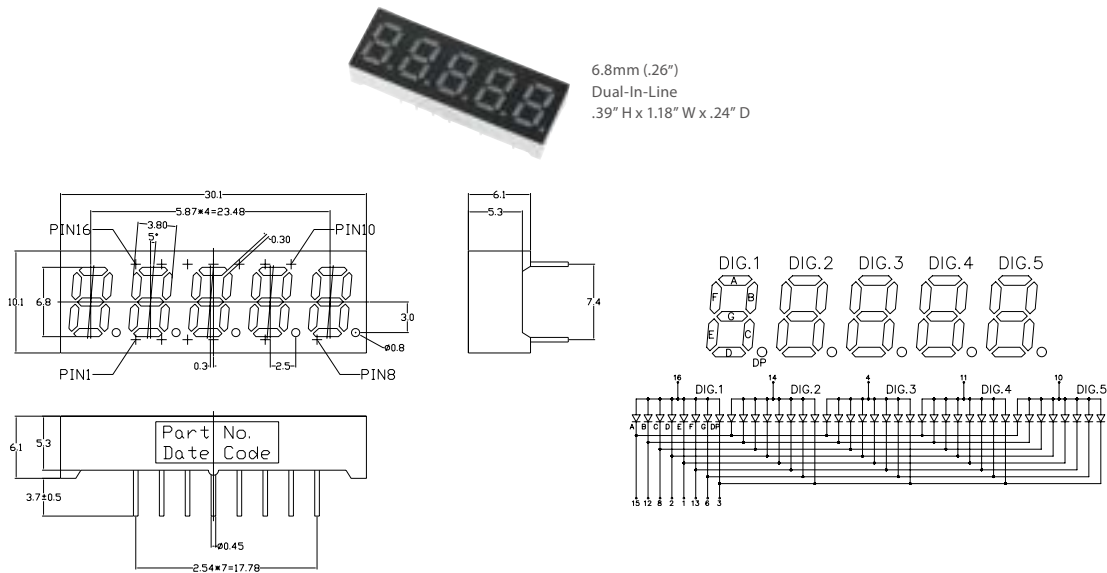
Numeric Display_ Quintuple Digits



5.08mm (.2")
Dual-In-Line
.43" H x .98" W x .19" D

Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity lv/Seg @ $I_f=1\text{mA}$ (μcd)
LTF-2606KD	■ Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	700
LTF-2606KR	■ Super Red	631		650
LTF-2606KF	■ Orange	605		1600
LTF-2606KS	■ Yellow	587		900
LTF-2606KG	■ Yellow Green	572		900

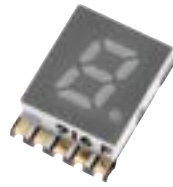
Numeric Display_ Quintuple Digits



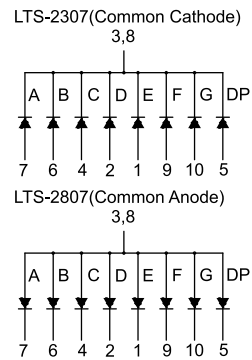
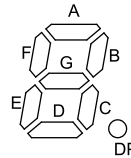
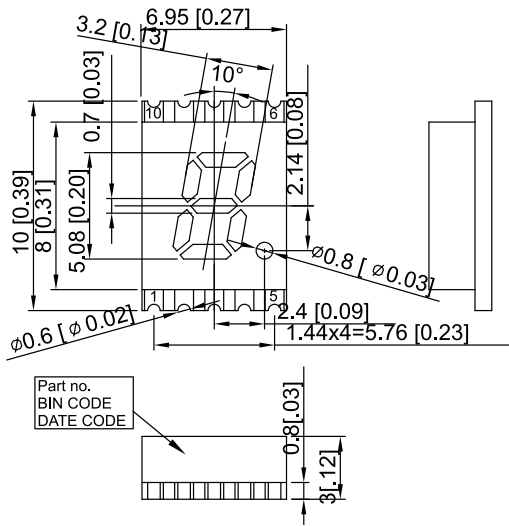
6.8mm (.26")
Dual-In-Line
.39" H x 1.18" W x .24" D

Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity lv/Seg @ $I_f=1\text{mA}$ (μcd)
LTF-2505KD	■ Hyper Red	639	Multiplex Common Anode, Rt.Hand Decimal	700
LTF-2505KR	■ Super Red	631		900
LTF-2505KF	■ Orange	605		1600
LTF-2505KS	■ Yellow	587		900
LTF-2505KG	■ Yellow Green	572		900

Numeric Display_SMD Type

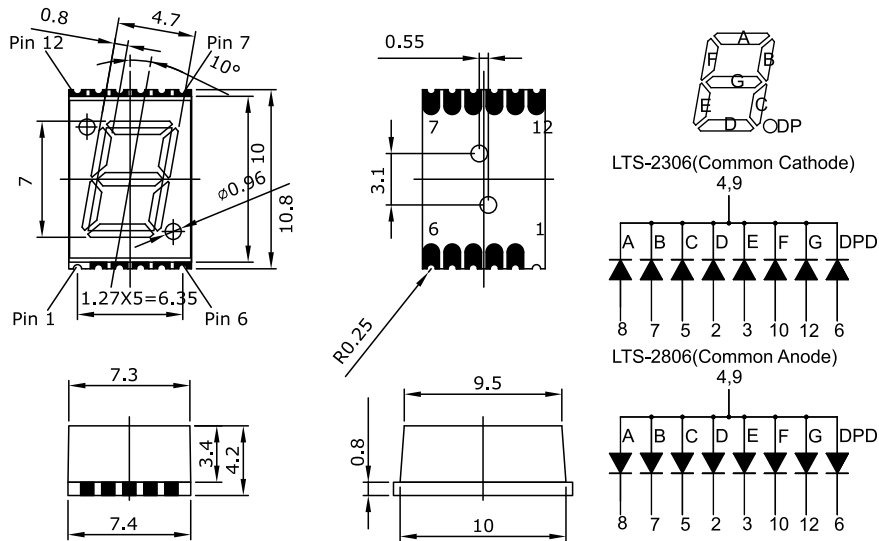
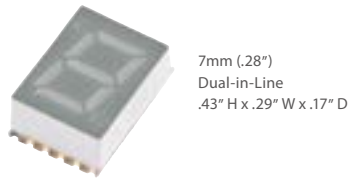


5.08mm (.2")
Dual-in-Line
.39" H x .27" W x .12" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=2mA$ (μcd)
LTS-2307CKD-P	Hyper Red	639	Common Cathode	560
LTS-2307CKR-P	Super Red	631		560
LTS-2307CKF-P	Orange	605		720
LTS-2307CKS-P	Yellow	587		720
LTS-2307CKG-P	Yellow Green	572		720
LTS-2307TBE-P	Blue	470		3500
LTS-2807CKG-P	Yellow Green	572	Common Anode	720
LTS-2807CKD-P	Hyper Red	639		560
LTS-2807CKR-P	Super Red	631		560
LTS-2807CKF-P	Orange	605		720
LTS-2807CKS-P	Yellow	587		720
LTS-2807TBE-P	Blue	470		3500

Numeric Display_SMD Type

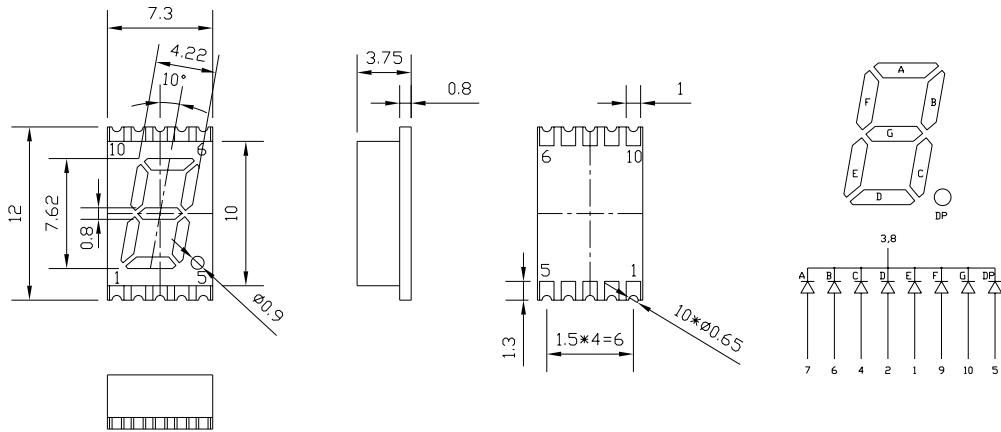


Part No.	Color	λ_0 (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _f =2mA (μcd)
LTS-2306CKD-P	Hyper Red	639	Common Cathode	560
LTS-2306CKR-P	Super Red	631		560
LTS-2306CKF-P	Orange	605		720
LTS-2306CKS-P	Yellow	587		720
LTS-2306CKG-P	Yellow Green	572		720
LTS-2306TBE-P	Blue	470		3500
LTS-2806CKD-P	Hyper Red	639	Common Anode	560
LTS-2806CKR-P	Super Red	631		560
LTS-2806CKF-P	Orange	605		720
LTS-2806CKS-P	Yellow	587		720
LTS-2806CKG-P	Yellow Green	572		720
LTS-2806TBE-P	Blue	470		3500

Numeric Display_SMD Type

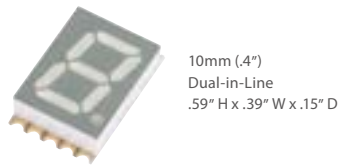


7.62mm (.3")
Dual-in-Line
.47" H x .28" W x .14" D

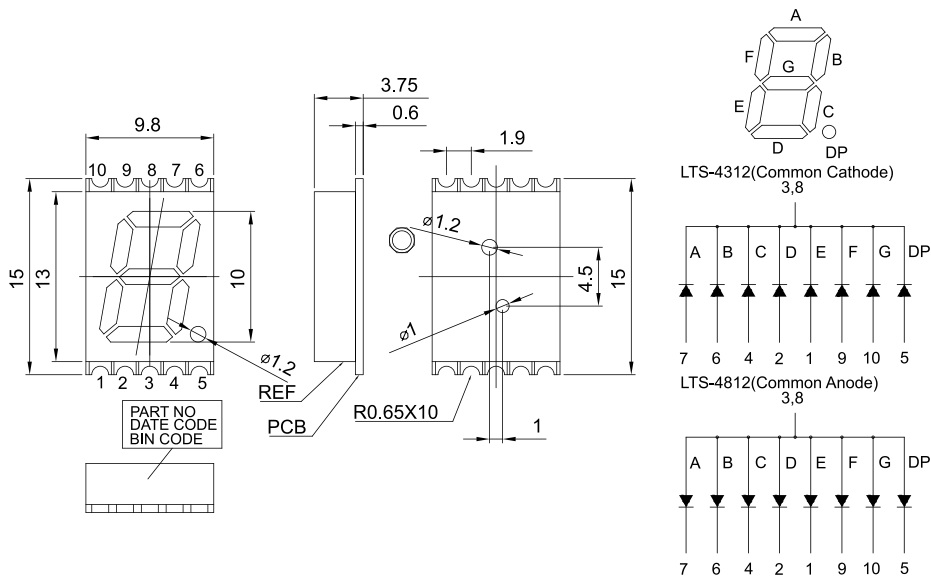


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _f =1mA (μcd)
LTS-3386CKD-P	Hyper Red	639	Common Cathode	650
LTS-3386CKR-P	Super Red	631		650
LTS-3386CKF-P	Orange	605		650
LTS-3386CKS-P	Yellow	587		650
LTS-3386CKG-P	Yellow Green	572		650
LTS-3386CTB-P	Blue	470		7000
LTS-3886CKD-P	Hyper Red	639	Common Anode	650
LTS-3886CKR-P	Super Red	631		650
LTS-3886CKF-P	Orange	605		650
LTS-3886CKS-P	Yellow	587		650
LTS-3886CKG-P	Yellow Green	572		650
LTS-3886CTB-P	Blue	470		7000

Numeric Display_SMD Type

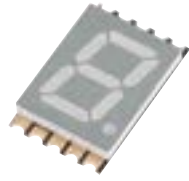


10mm (.4")
Dual-in-Line
.59" H x .39" W x .15" D

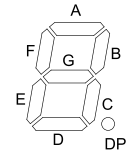
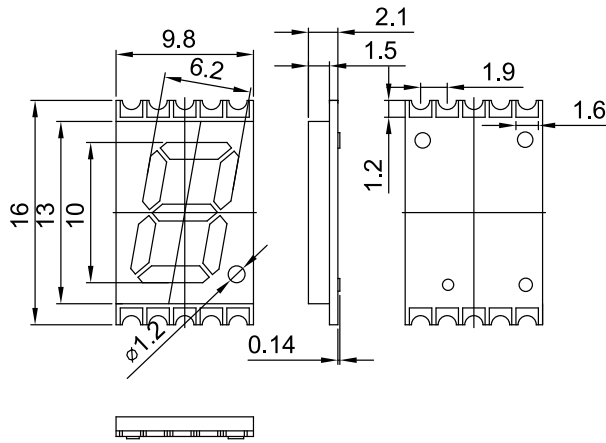


Part No.	Color	λ_0 (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _f =2mA (μcd)
LTS-4312CKD-PM	Hyper Red	639	Common Cathode	639
LTS-4312CKR-PM	Super Red	631		639
LTS-4312CKF-PM	Orange	605		830
LTS-4312CKS-PM	Yellow	587		830
LTS-4312CKG-PM	Yellow Green	572		830
LTS-4312TBE-PM	Blue	470		4000
LTS-4812CKD-PM	Hyper Red	639	Common Anode	639
LTS-4812CKR-PM	Super Red	631		639
LTS-4812CKF-PM	Orange	605		830
LTS-4812CKS-PM	Yellow	587		830
LTS-4812CKG-PM	Yellow Green	572		830
LTS-4812TBE-PM	Blue	470		4000

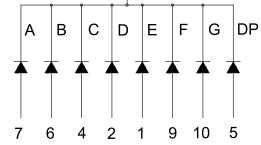
Numeric Display_SMD Type



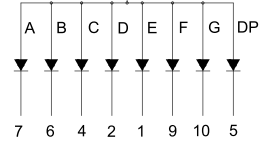
10mm (.4")
Dual-in-Line
.63" H x .39" W x .08" D



LTS-4317(Common Cathode)
3,8

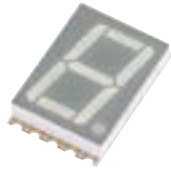


LTS-4817(Common Anode)
3,8

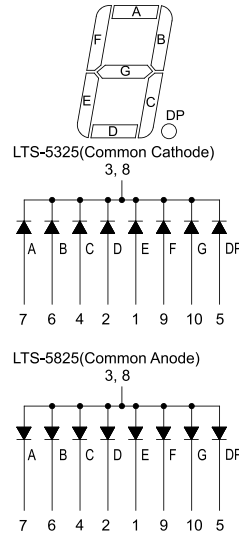
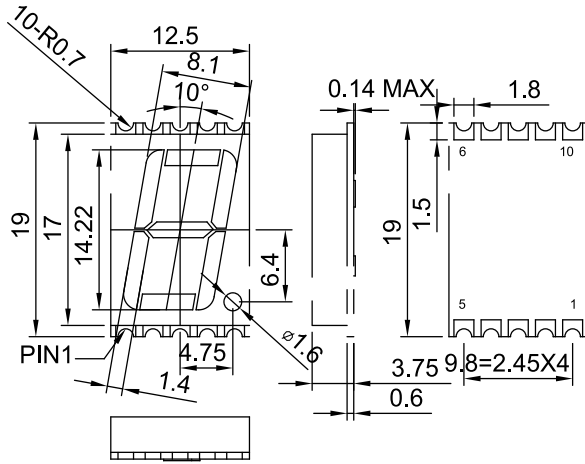


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _c =2mA (μcd)
LTS-4317CKD-P	Hyper Red	639	Common Cathode	639
LTS-4317CKR-P	Super Red	631		639
LTS-4317CKF-P	Orange	605		830
LTS-4317CKS-P	Yellow	587		830
LTS-4317CKG-P	Yellow Green	572		830
LTS-4317TBE-P	Blue	470		4000
LTS-4817CKD-P	Hyper Red	639	Common Anode	639
LTS-4817CKR-P	Super Red	631		639
LTS-4817CKF-P	Orange	605		830
LTS-4817CKS-P	Yellow	587		830
LTS-4817CKG-P	Yellow Green	572		830
LTS-4817TBE-P	Blue	470		4000

Numeric Display_SMD Type



14.22mm (.56")
Dual-in-Line
.75" H x .49" W x .15" D

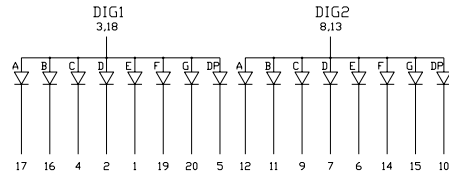
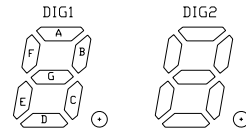
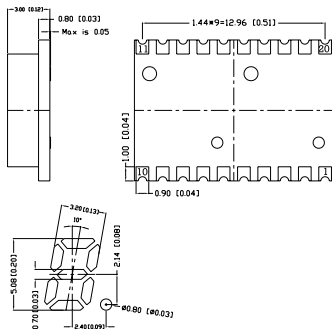
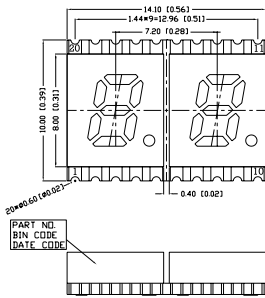


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=2mA$ (μcd)
LTS-5325CKD-P	Hyper Red	639	Common Cathode	1020
LTS-5325CKR-P	Super Red	631		1020
LTS-5325CKF-P	Orange	605		1300
LTS-5325CKS-P	Yellow	587		1300
LTS-5325CKG-P	Yellow Green	572		1300
LTS-5325TBE-P	Blue	470		6500
LTS-5825CKD-P	Hyper Red	639	Common Anode	1020
LTS-5825CKR-P	Super Red	631		1020
LTS-5825CKF-P	Orange	605		1300
LTS-5825CKS-P	Yellow	587		1300
LTS-5825CKG-P	Yellow Green	572		1300
LTS-5825TBE-P	Blue	470		6500

Numeric Display_SMD Type

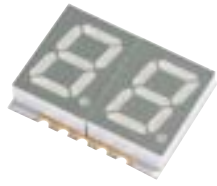


5.08mm (.2")
Dual-In-Line
.39" H x .56" W x .12" D

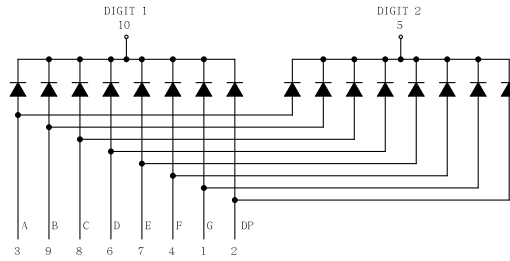
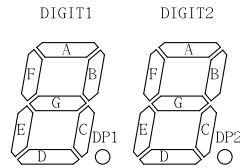
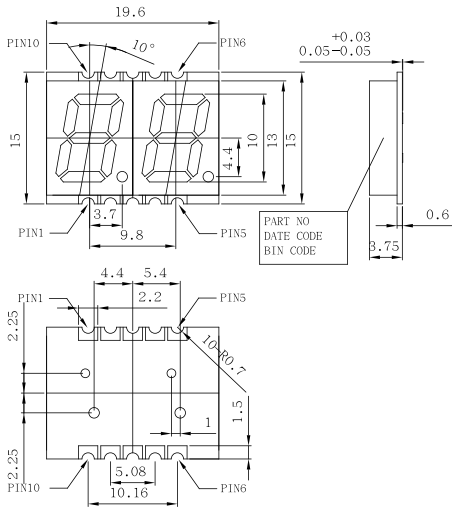


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @ I _f =1mA (μcd)
LTD-2404CKD-P	Hyper Red	639	Common Anode	650
LTD-2404CKR-P	Super Red	631		650
LTD-2404CKF-P	Orange	605		400
LTD-2404CKS-P	Yellow	587		400
LTD-2404CKG-P	Yellow Green	572		400
LTD-2404SW-P	White	-		180000

Numeric Display_SMD Type

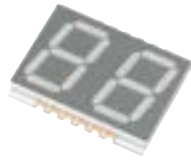


10.0mm (.4")
Dual-In-Line
.59" H x .78" W x .15" D

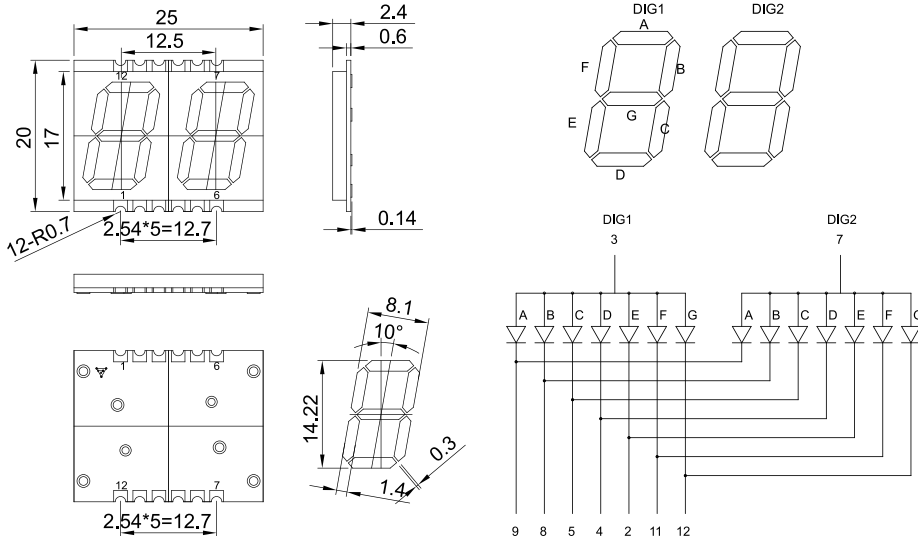


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=2mA$ (μcd)
LTD-4516CKD-PM	Hyper Red	639	Multiplexed, Common Cathode	639
LTD-4516CKR-PM	Super Red	631		639
LTD-4516CKF-PM	Orange	605		830
LTD-4516CKS-PM	Yellow	587		830
LTD-4516CKG-PM	Yellow Green	572		830
LTD-4516TBE-PM	Blue	470		4000

Numeric Display_SMD Type

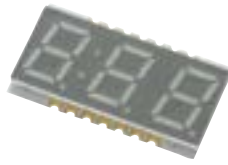


14.22mm (.56")
Dual-In-Line
.79" H x .98" W x .09" D

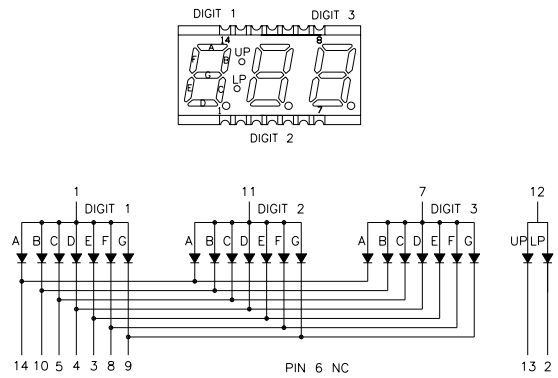
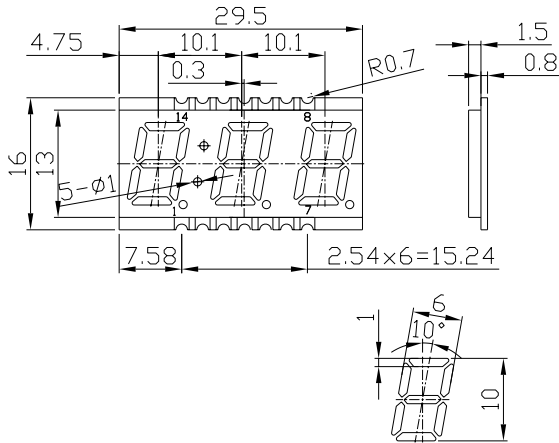


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=2\text{mA}$ (μcd)
LTD-5435CKD-P	Hyper Red	639	Multiplex Common Anode	620
LTD-5435CKR-P	Super Red	631		620
LTD-5435CKF-P	Orange	605		620
LTD-5435CKS-P	Yellow	587		800
LTD-5435CKG-P	Yellow Green	572		800
LTD-5435TBE-P	Blue	470		3900

Numeric Display_SMD Type

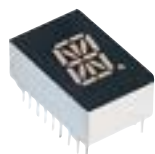


10mm (.4")
Dual-In-Line
.62" H x 1.16" W x .09" D

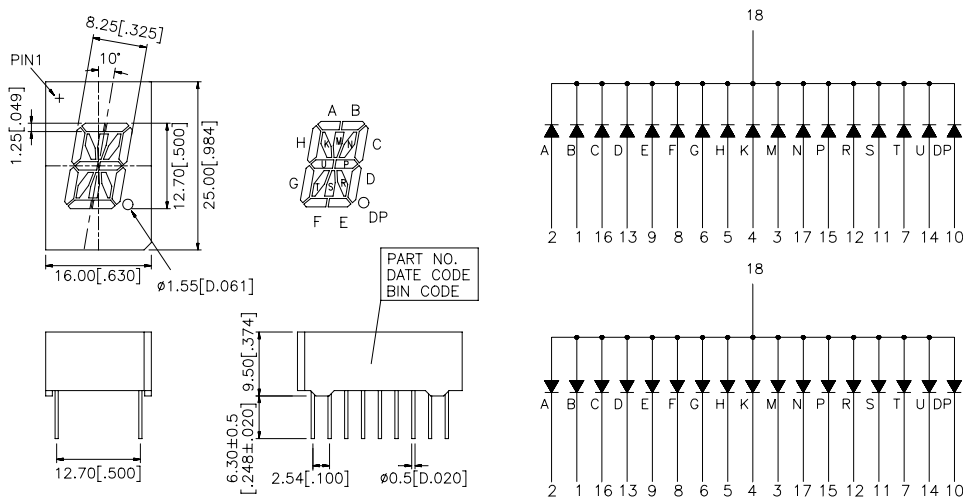


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_f=1\text{mA}$ (μcd)
LTC-46F6CKD-P	Hyper Red	639	Multiplex Common Anode	620
LTC-46F6CKR-P	Super Red	631		620
LTC-46F6CKF-P	Orange	605		620
LTC-46F6CKS-P	Yellow	587		800
LTC-46F6CKG-P	Yellow Green	572		800
LTC-46F6TB-P	Blue	470		3900

Alphanumeric Display



12.7mm (.5")
Dual-In-Line
1" H x .63" W x .38" D

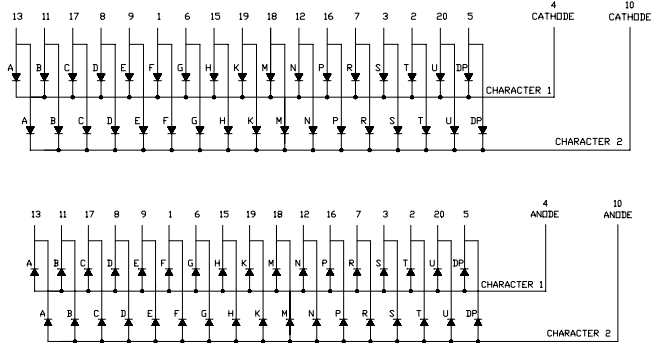
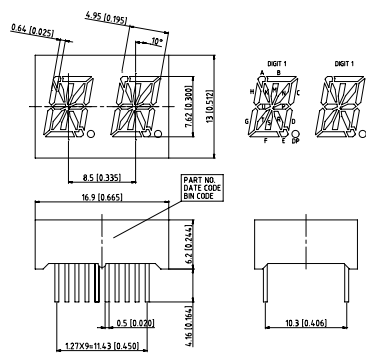


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _v =1mA (μcd)
LTP-537KD	Hyper Red	639	Common Cathode, Single, Dual Character, Rt. Hand Decimal	700
LTP-537KR	Super Red	631		700
LTP-537KS	Orange	605		1600
LTP-537KF	Yellow	587		900
LTP-537KG	Yellow Green	572		900
LTP-587KD	Hyper Red	639	Common Anode, Single, Dual Character, Rt. Hand Decimal	700
LTP-587KR	Super Red	631		700
LTP-587KS	Orange	605		1600
LTP-587KF	Yellow	587		900
LTP-587KG	Yellow Green	572		900

Alphanumeric Display



7.62mm (.3")
Dual-In-Line
.51" H x .67" W x .24" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @ I _f =1mA (μcd)
LTP-3362JD	Hyper Red	639	Common Cathode, Duplex, Dual Character, Rt. Hand Decimal	600
LTP-3362JR	Super Red	631		600
LTP-3362JS	Orange	605		1200
LTP-3362JF	Yellow	587		800
LTP-3362JG	Yellow Green	572		800
LTP-3862JD	Hyper Red	639	Common Anode, Duplex, Dual Character, Rt. Hand Decimal	600
LTP-3862JR	Super Red	631		600
LTP-3862JS	Orange	605		1200
LTP-3862JF	Yellow	587		800
LTP-3862JG	Yellow Green	572		800

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

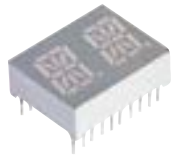
Infrared Emitter and Detector

Optical Sensors

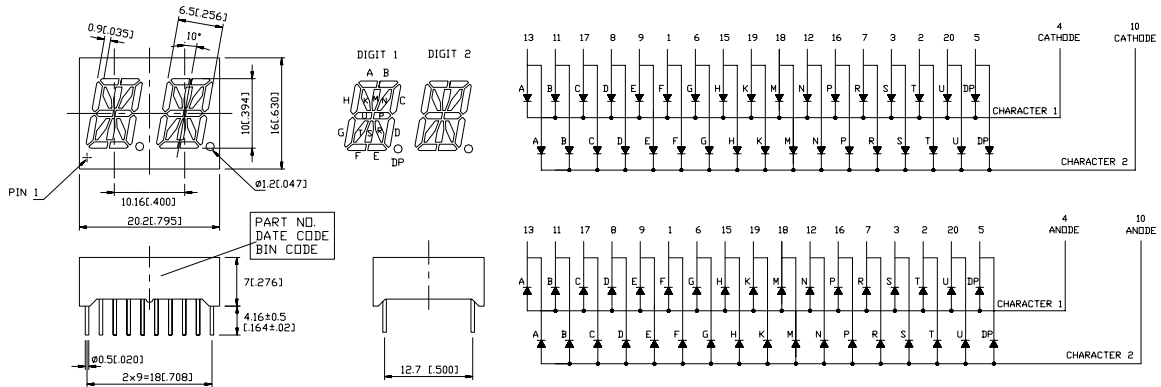
Photocoupler

UV LED

Alphanumeric Display



10.4mm (.4")
Dual-In-Line
.63" H x .8" W x .28" D

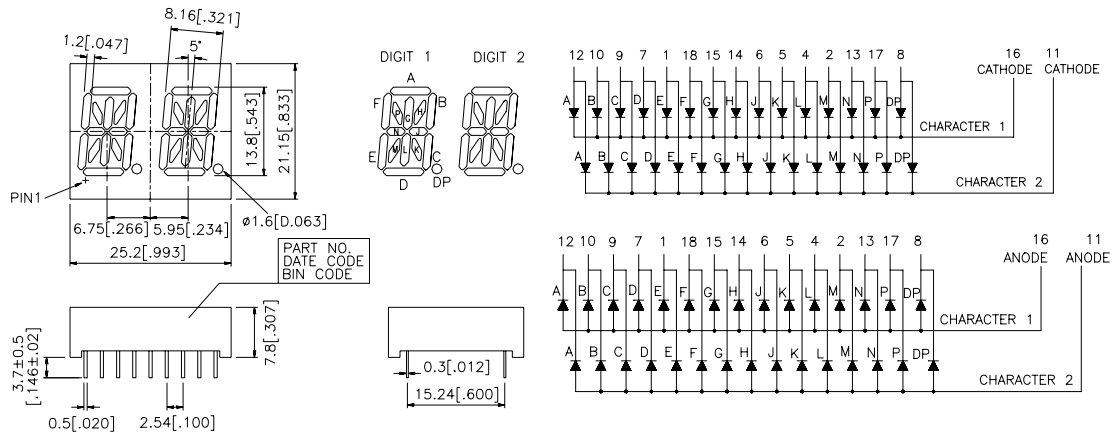


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v /Seg @I _f =1mA (μcd)
LTP-4323JD	Hyper Red	639	Common Cathode, Duplex, Dual Character, Rt. Hand Decimal	650
LTP-4323KR	Super Red	631		650
LTP-4323KS	Orange	605		1300
LTP-4323KF	Yellow	587		850
LTP-4323JG	Yellow Green	572		850
LTP-4823JD	Hyper Red	639	Common Anode, Duplex, Dual Character, Rt. Hand Decimal	650
LTP-4823KR	Super Red	631		650
LTP-4823KS	Orange	605		1300
LTP-4823KF	Yellow	587		850
LTP-4823JG	Yellow Green	572		850

Alphanumeric Display

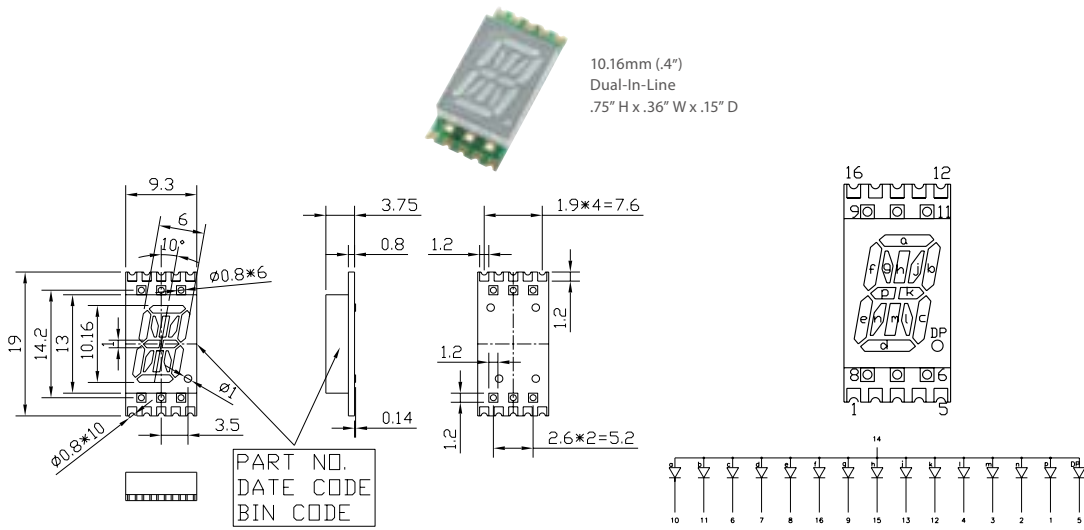


13.8mm (.54")
Dual-In-Line
.84" H x 1" W x .32" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I_v /Seg @ $I_f=1\text{mA}$ (μcd)
LTP-3784KD-01	Hyper Red	639	Common Cathode, Duplex, Dual Character, Rt. Hand Decimal	700
LTP-3784KR-01	Super Red	631		700
LTP-3784KF-01	Orange	605		1600
LTP-3784KS-01	Yellow	587		900
LTP-3784JG-01	Yellow Green	572		900
LTP-3786KD-01	Hyper Red	639	Common Anode, Duplex, Dual Character, Rt. Hand Decimal	700
LTP-3786KR-01	Super Red	631		700
LTP-3786KF-01	Orange	605		1600
LTP-3786KS-01	Yellow	587		900
LTP-3786JG-01	Yellow Green	572		900

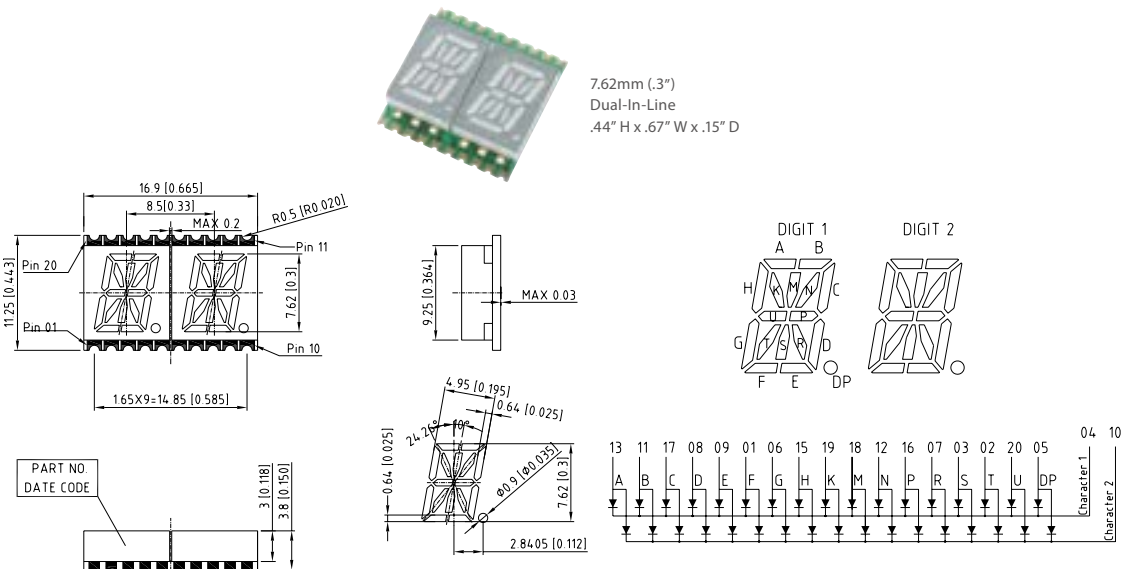
Alphanumeric Display_SMD Type



10.16mm (.4")
Dual-In-Line
.75" H x .36" W x .15" D

Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_c=1\text{mA}$ (μcd)
LTP-4824CKD-P	Hyper Red	639	Common Anode	1050
LTP-4824CKR-P	Super Red	631		1050
LTP-4824CKF-P	Orange	605		1050
LTP-4824CKS-P	Yellow	587		1050
LTP-4824CKG-P	Yellow Green	572		1050

Alphanumeric Display_SMD Type



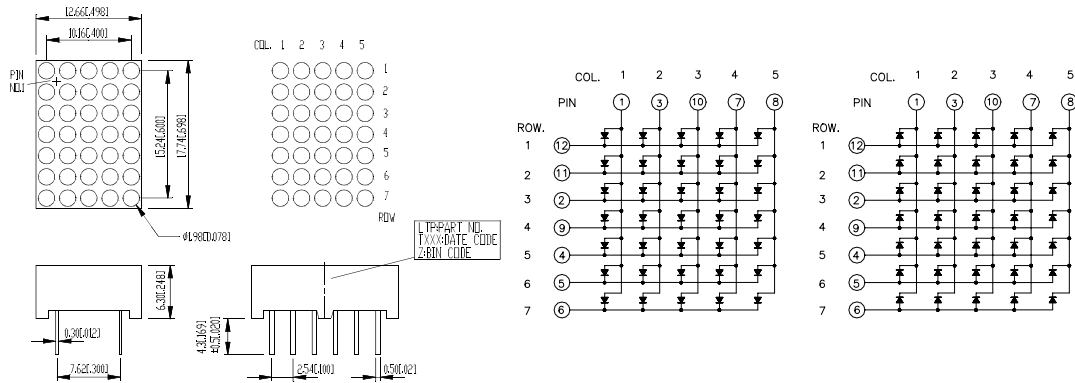
7.62mm (.3")
Dual-In-Line
.44" H x .67" W x .15" D

Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv/Seg @ $I_c=1\text{mA}$ (μcd)
LTP-3363CKD-P	Hyper Red	639	Multiplex Common Cathode, Rt.Hand Decimal	650
LTP-3363CKR-P	Super Red	631		650
LTP-3363CKF-P	Orange	605		650
LTP-3363CKS-P	Yellow	587		650
LTP-3363CKG-P	Yellow Green	572		650

Dot Matrix_5X7 Single Color



17.74mm (2φ)
Dual-In-Line
.7" H x .5" W x .25" D



Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@ $I_f=32mA$ 1/16 Duty (μcd)
LTP-747KD	■ Hyper Red	639	Anode Column, Cathode Row	2300
LTP-747KR	■ Super Red	631		
LTP-747KF	■ Orange	605		
LTP-747KS	■ Yellow	587		
LTP-747KG	■ Yellow Green	572		
LTP-757KD	■ Hyper Red	639	Cathode Column, Anode Row	2300
LTP-757KR	■ Super Red	631		
LTP-757KF	■ Orange	605		
LTP-757KS	■ Yellow	587		
LTP-757KG	■ Yellow Green	572		

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and Detector

Optical Sensors

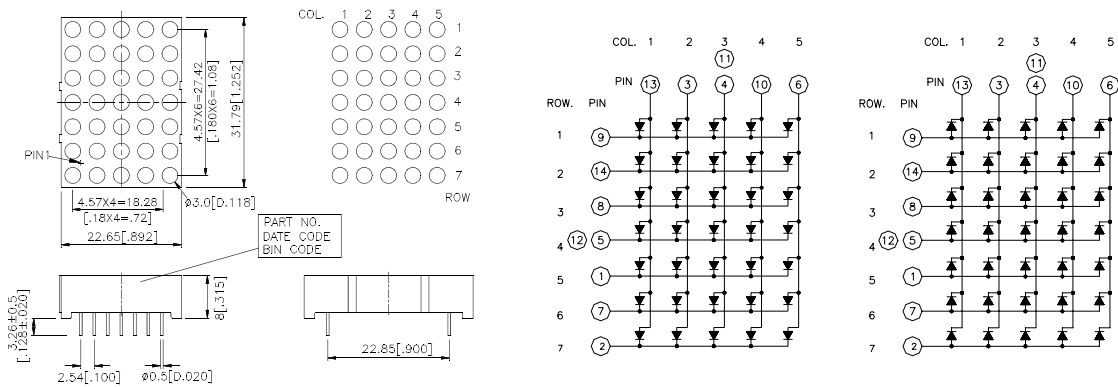
Photocoupler

UV LED

Dot Matrix_5X7 Single Color



31.79mm (3 φ)
Dual-In-Line
1.25" H x .9" W x .31" D

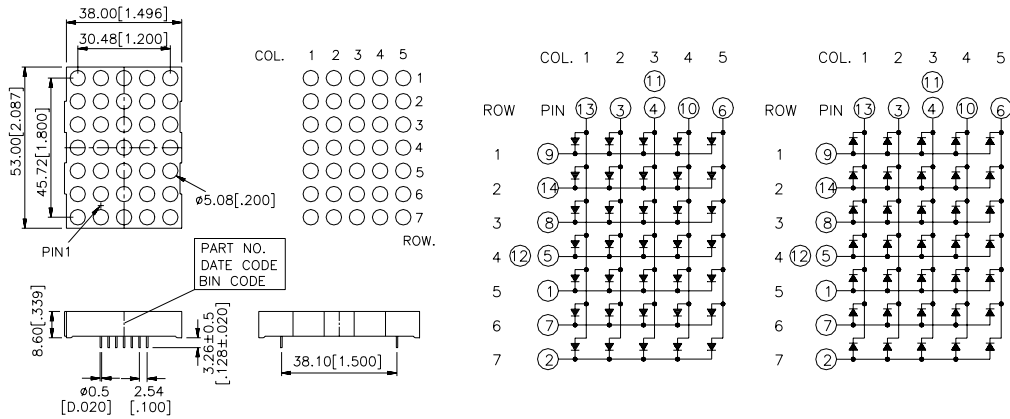


Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I _p =32mA 1/16 Duty (μcd)
LTP-1457KD	Hyper Red	639		
LTP-1457KR	Super Red	631		
LTP-1457KF	Orange	605	Anode Column, Cathode Row	4500
LTP-1457KS	Yellow	587		
LTP-1457KG	Yellow Green	572		
LTP-1557KD	Hyper Red	639		
LTP-1557KR	Super Red	631		
LTP-1557KF	Orange	605	Cathode Column, Anode Row	4500
LTP-1557KS	Yellow	587		
LTP-1557KG	Yellow Green	572		
LTP-1557TBE	Blue	470	Cathode Column, Anode Row	1350@I _p =10mA

Dot Matrix_5X7 Single Color



53mm (5 φ)
Dual-In-Line
2.1" H x 1.5" W x .34" D



Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I _p =32mA 1/16 Duty (μcd)
LTP-2057AKA	Super Orange	615	Anode Column, Cathode Row	4600
LTP-2057AKY	Amber Yellow	592		4600
LTP-2057AKR	Super Red	531		3500
LTP-2157AKA	Super Orange	615	Cathode Column, Anode Row	4600
LTP-2157AKY	Amber Yellow	592		4600
LTP-2157AKR	Super Red	531		3500

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and Detector

Optical Sensors

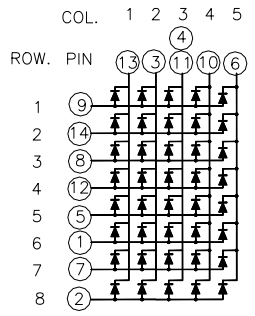
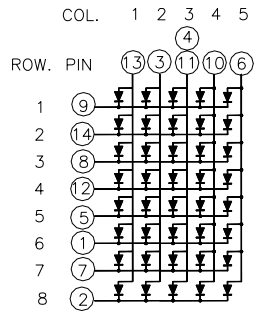
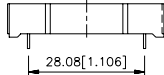
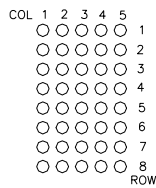
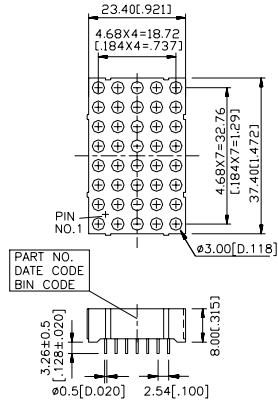
Photocoupler

UV LED

Dot Matrix_5X8 Single Color



37.4mm (3φ)
Dual-In-Line
1.47" H x .9" W x .31" D

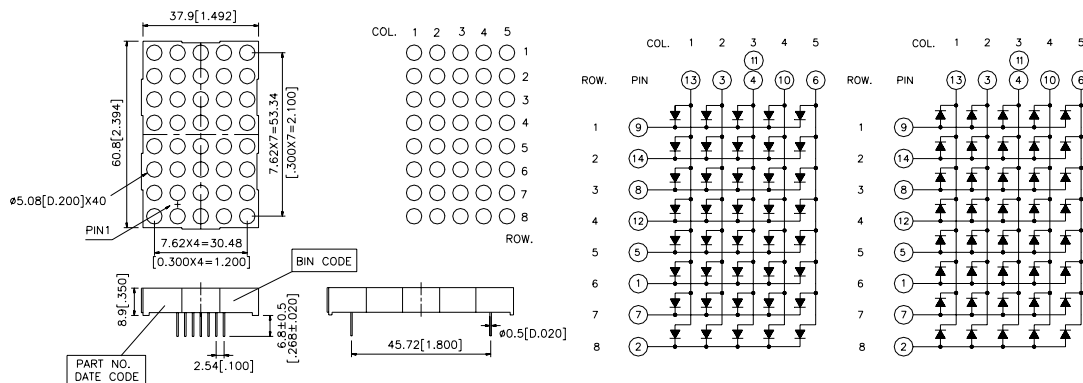


Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I _p =32mA 1/16 Duty (μcd)
LTP-14058AKD	Hyper Red	639		
LTP-14058AKR	Super Red	631		
LTP-14058AKF	Orange	605	Anode Column, Cathode Row	4500
LTP-14058AKS	Yellow	587		
LTP-14058AKG	Yellow Green	572		
LTP-14158AKD	Hyper Red	639		
LTP-14158AKR	Super Red	631		
LTP-14158AKF	Orange	605	Cathode Column, Anode Row	4500
LTP-14158AKS	Yellow	587		
LTP-14158AKG	Yellow Green	572		

Dot Matrix_5X8 Single Color

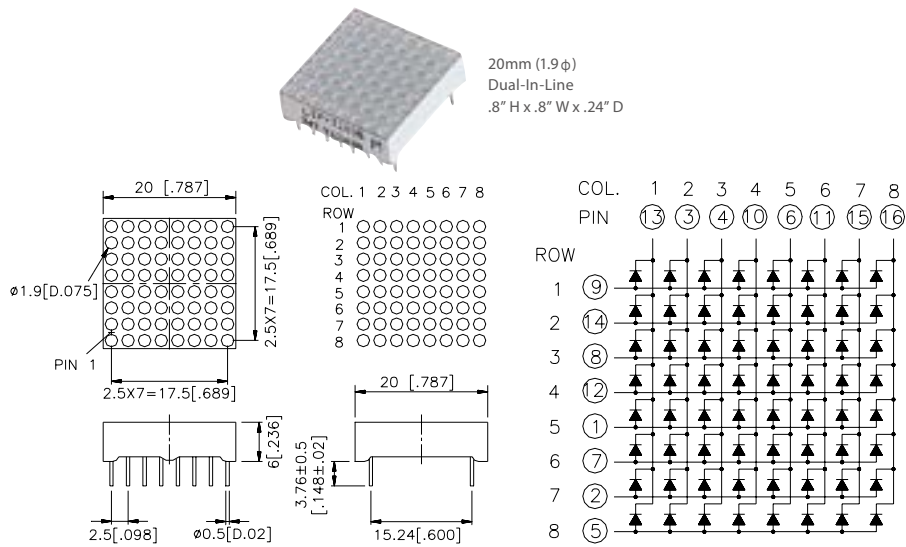


60.8mm (5φ)
Dual-In-Line
2.4" H x 1.5" W x .35" D



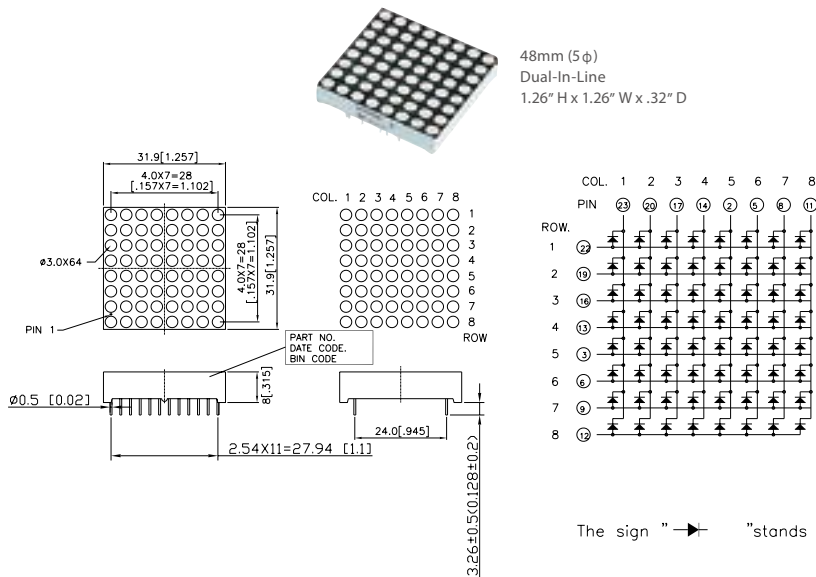
Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@ $I_f=32\text{mA}$ 1/16 Duty (μcd)
LTP-2058AKD	■ Hyper Red	639		
LTP-2058AKR	■ Super Red	631		
LTP-2058AKF	■ Orange	605	Anode Column, Cathode Row	4910
LTP-2058AKS	■ Yellow	587		
LTP-2058AKG	■ Yellow Green	572		
LTP-2158AKD	■ Hyper Red	639		
LTP-2158AKR	■ Super Red	631		
LTP-2158AKF	■ Orange	605	Cathode Column, Anode Row	4910
LTP-2158AKS	■ Yellow	587		
LTP-2158AKG	■ Yellow Green	572		

Dot Matrix_8X8 Single Color



Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I _p =32mA 1/16 Duty (μcd)
LTP-7188KD	Hyper Red	639		
LTP-7188KR	Super Red	631		
LTP-7188KF	Orange	605	Anode Row, Cathode Column	2300
LTP-7188KS	Yellow	587		
LTP-7188KG	Yellow Green	572		

Dot Matrix_8X8 Single Color



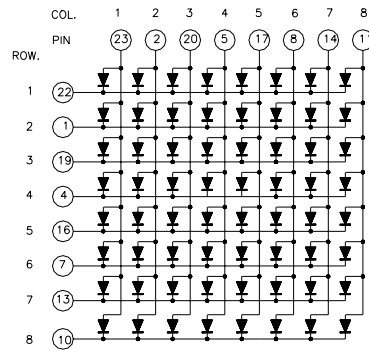
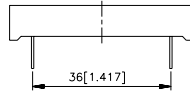
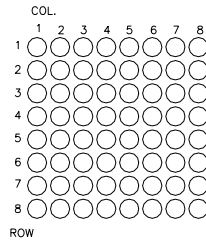
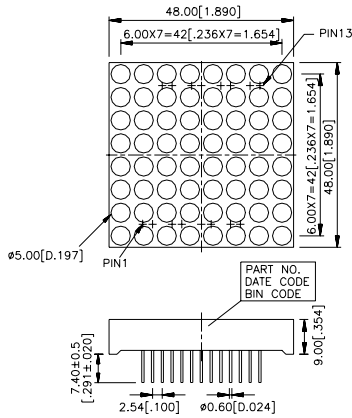
The sign "→" stands for red orange chips.

Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I _p =32mA 1/16 Duty (μcd)
LTP-12788KD	Hyper Red	639		
LTP-12788KR	Super Red	631		
LTP-12788KF	Orange	605	Anode Row, Cathode Column	2300
LTP-12788KS	Yellow	587		
LTP-12788KG	Yellow Green	572		

Dot Matrix_8X8 Single Color



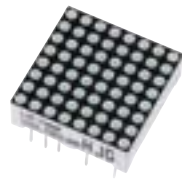
48mm (5 φ)
Dual-In-Line
1.9" H x 1.9" W x .35" D



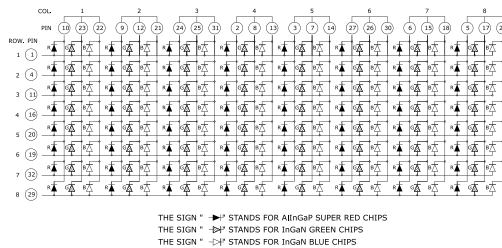
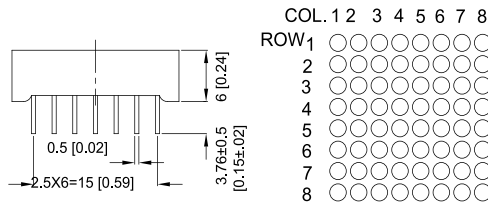
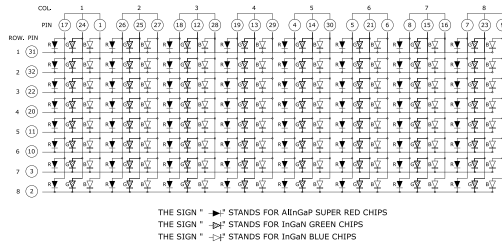
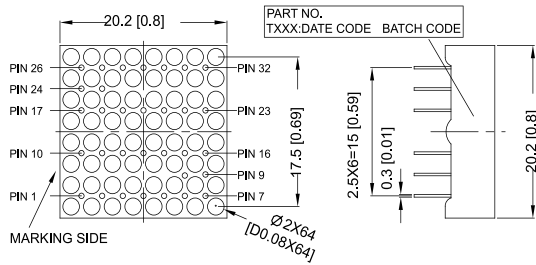
Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@ $I_p=32mA$ 1/16 Duty (μcd)
LTP-18088KD	Hyper Red	639	Anode Column, Cathode Row	4910
LTP-18088KR	Super Red	631		
LTP-18088KF	Orange	605		
LTP-18088KS	Yellow	587		
LTP-18088KG	Yellow Green	572		

- Flash LED
- SMD LED
- Through Hole Lamp
- LED Display
- Automotive LED
- Signage LED
- Lighting LED
- Infrared Emitter and Detector
- Optical Sensors
- Photocoupler
- UV LED

Dot Matrix_8X8 Multi Color



20.2mm (2.0φ)
Multi-In-Line
.8" H x .8" W x .24" D

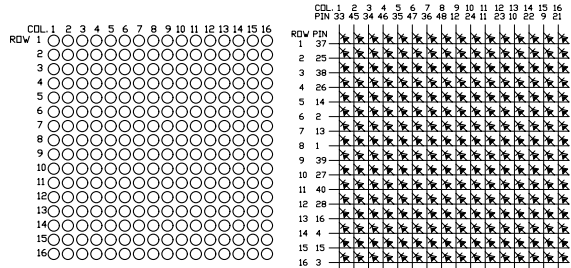
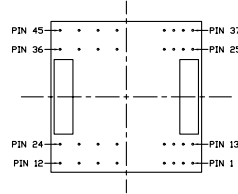
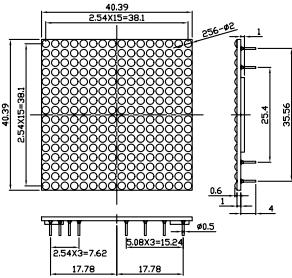


Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@I _p =10mA (μcd)
LTP-7488SF	■ Super Red	631	Anode Column, Cathode Row	9653
	■ True Green	525		28000
	■ Blue	470		8500
LTP-7588SF	■ Super Red	631	Cathode Column, Anode Row	9653
	■ True Green	525		28000
	■ Blue	470		8500

Dot Matrix_16X16 Single Color

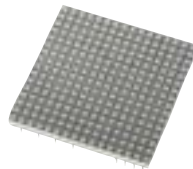


40mm (2.0 φ)
Multi-In-Line
1.59" H x 1.59" W x .07" D

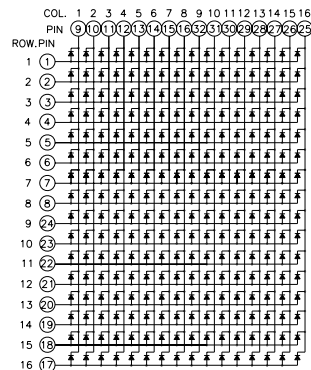
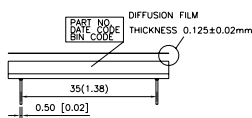
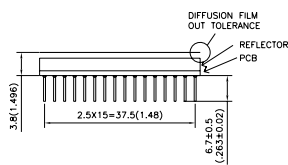
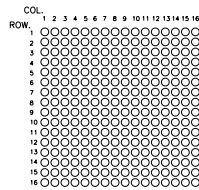
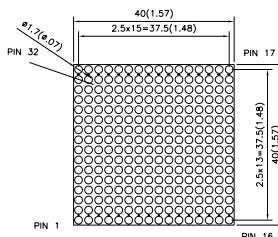


Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@ $I_f=28\text{mA}$ 1/16 Duty (μcd)
LTP-158FFKF	Orange	605	Anode Row, Cathode Column	1960

Dot Matrix_16X16 Single Color

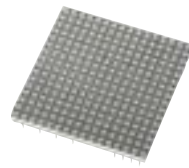


40mm (1.7 φ)
Dual-In-Line
1.57" H x 1.57" W x .14" D

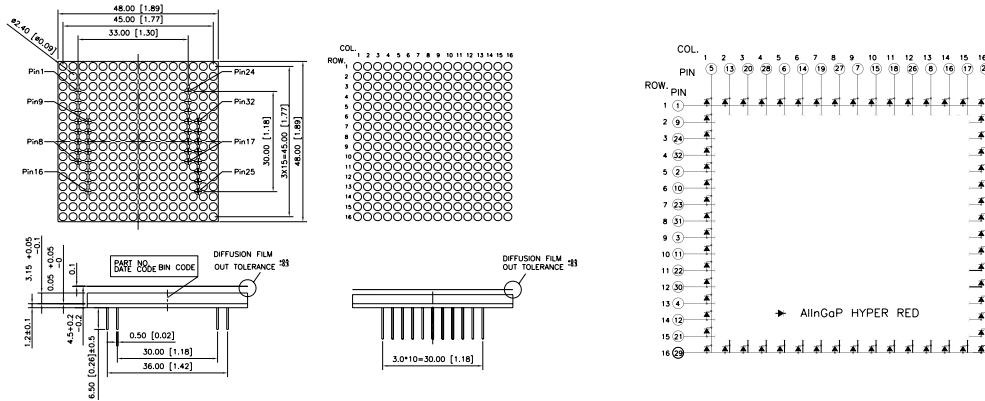


Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@ $I_f=25\text{mA}$ 1/16 Duty (μcd)
LTP-159FFKF	Orange	605	Anode Row, Cathode Column	1240

Dot Matrix_16X16 Single Color



48mm (2.4 φ)
Mult-In-Line
1.89" H x 1.89" W x .17" D

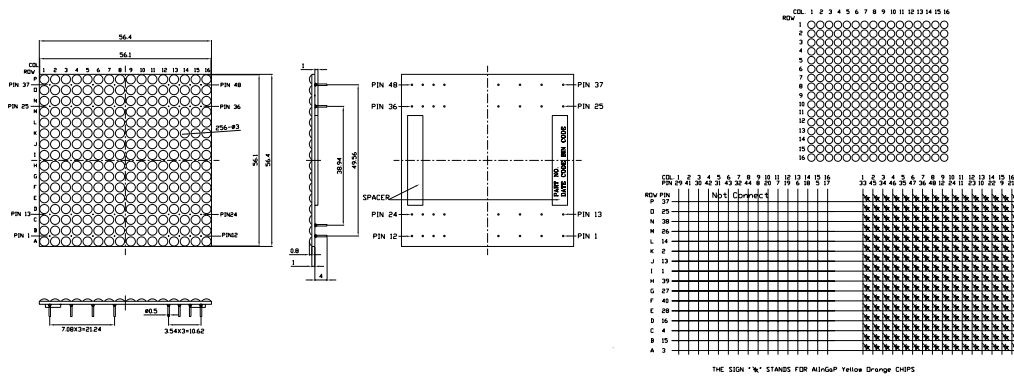


Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@ $I_p=60\text{mA}$ 1/16 Duty (μcd)
LTP-185FFMKD-J	Hyper Red	639	Anode Row, Cathode Column	1500

Dot Matrix_16X16 Single Color



56.4mm (3.0 φ)
Dual-In-Line
2.22" H x 2.22" W x .07" D

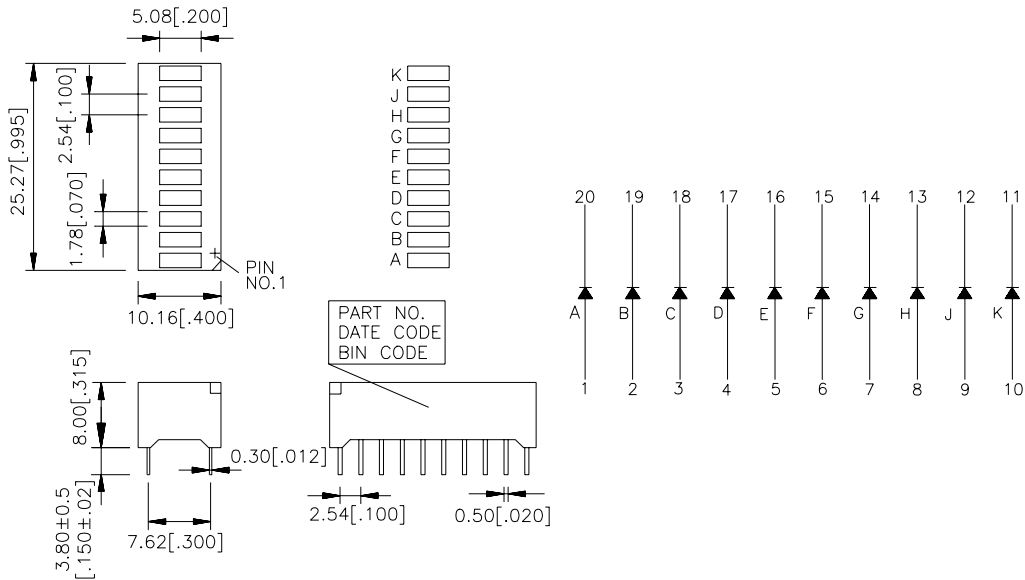


Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@ $I_p=35\text{mA}$ 1/16 Duty (μcd)
LTP-229FFKF	Orange	605	Anode Row, Cathode Column	2300 μcd

Light Bar Array



20 Pin DIP
 .100" Centers
 .96" L x .40" W x .32" H



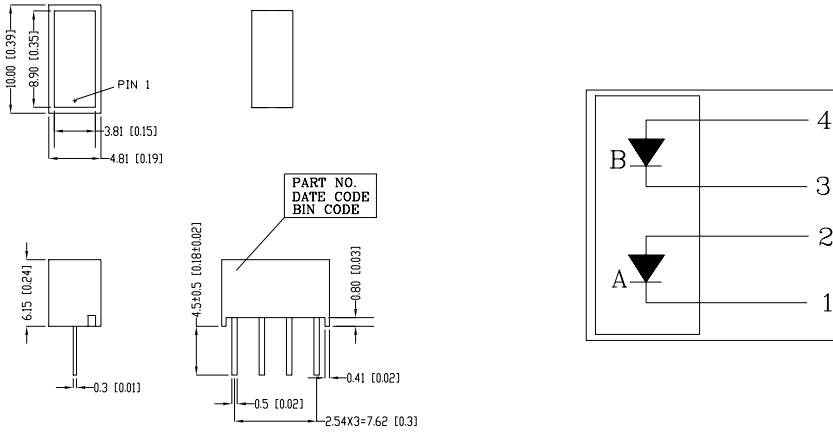
Part No.	Color	λ_0 (nm)	Description	Typ. Luminous Intensity Iv@10mA (mcd)
LTA-1000KD	Hyper Red	639	Universal Rectangular Bar	12.3
LTA-1000KR	Super Red	631		12.3
LTA-1000KF	Orange	605		16
LTA-1000KS	Yellow Green	587		16.4
LTA-1000KG	Yellow Green	572		7.6

- Flash LED
- SMD LED
- Through Hole Lamp
- LED Display
- Automotive LED
- Signage LED
- Lighting LED
- Infrared Emitter and Detector
- Optical Sensors
- Photocoupler
- UV LED

Light Bar Array

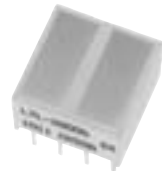


4 Pin DIP
.39" H x .19" W x .24" D

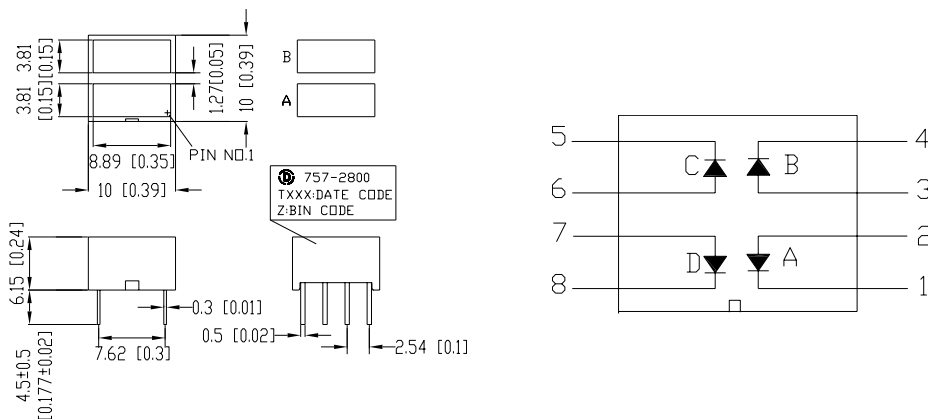


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v @10mA (mcd)
LTL-2300HR	■ Red	623	Universal Rectangular Bar	4.2
LTL-2400Y	■ Yellow	588		4.2
LTL-2500G	■ Yellow Green	569		4.2

Light Bar Array

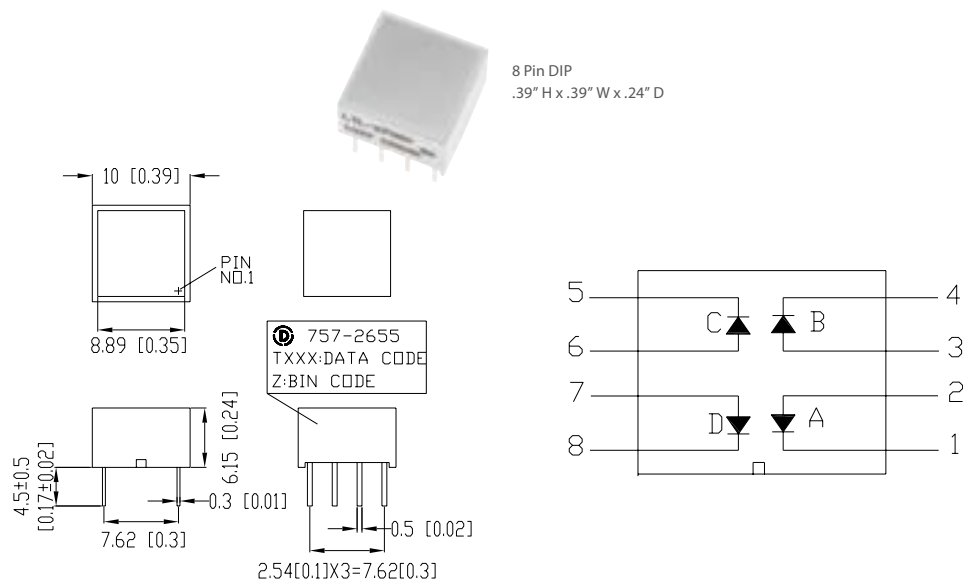


8 Pin DIP
.2" Centers
.39" H x .39" W x .24" D



Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v @10mA (mcd)
LTL-2800G	■ Yellow Green	569	Universal Rectangular Bar	4.2

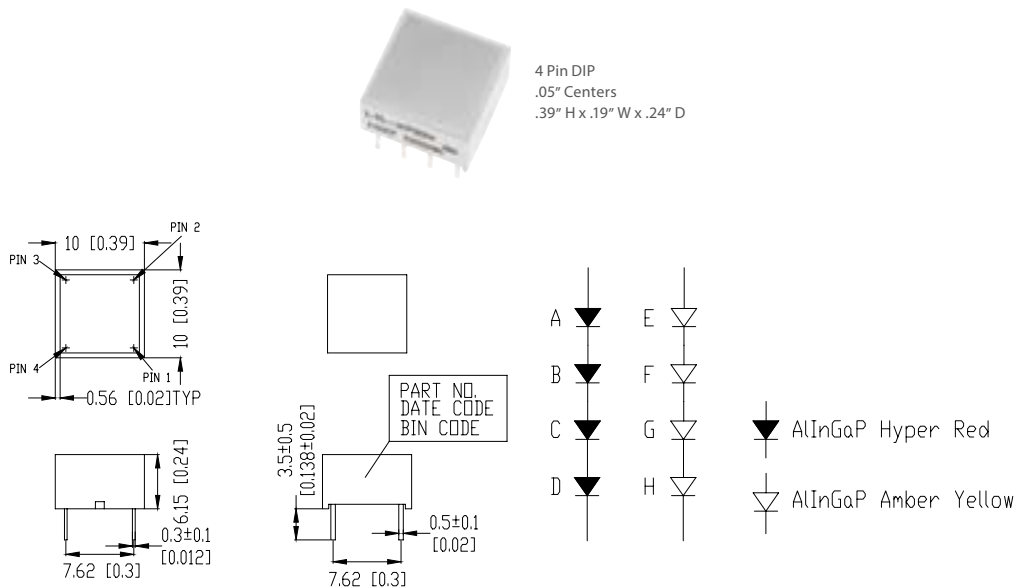
Light Bar Array



8 Pin DIP
.39" H x .39" W x .24" D

Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv@10mA (mcd)
LTL-2655JD	■ Hyper Red	639	Universal Rectangular Bar	1.8
LTL-2655HR	■ Red	623		8
LTL-2755Y	■ Yellow	588		8
LTL-2855G	■ Yellow Green	569		8

Light Bar Array



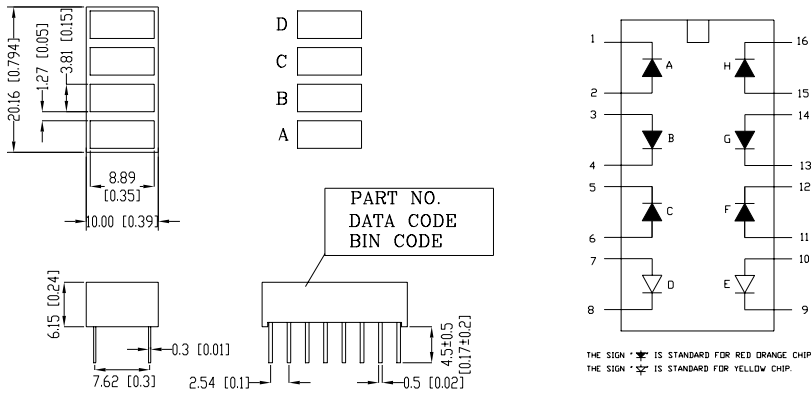
4 Pin DIP
.05" Centers
.39" H x .19" W x .24" D

Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity Iv@10mA (mcd)
LTL-4201M	■ Red	638	Universal Rectangular Bar	70
	■ Amber Yellow	592		110

Light Bar Array



16 Pin DIP
 .2" Centers
 .79" H x .39" W x .24" D

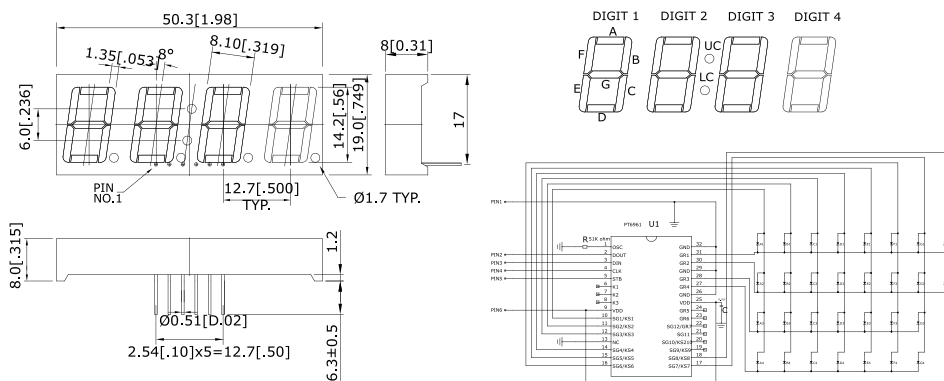


Part No.	Color	λ_d (nm)	Description	Typ. Luminous Intensity I _v @10mA (mcd)
LTL-2720Y	Yellow	588	Universal Rectangular Bar	4.2
LTL-2820G	Yellow Green	569		4.2
LTL-2620M	Red Orange	621		2
	Yellow	588		2

LED Display Module



Epoxy Type
 14.2mm (.56")
 Single-In-Line
 .75" H x 1.98" W x .32" D

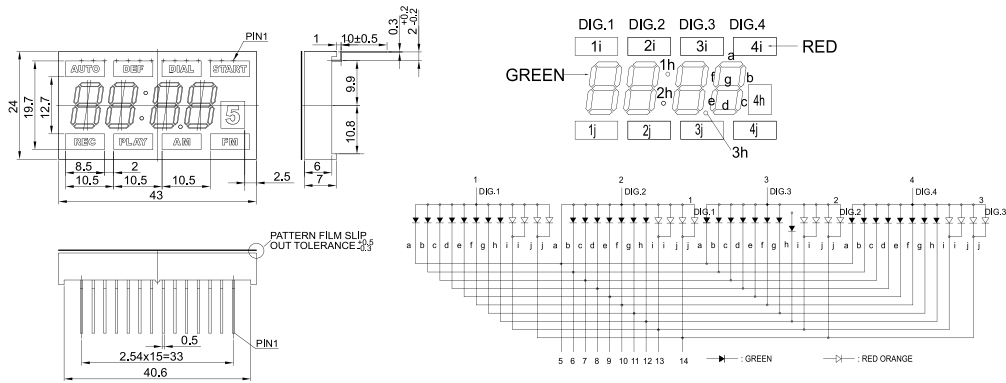


Part No.	Color	λ_d (nm)	Description	Typ. I _v /Seg@I _f =10mA (μcd)	Forward Current I _f (mA)
LTM-0735G	Green	565	Multiplex with IC Driver	2200	10
LTM-0735SW	White	(0.294, 0.286)		118000	5

LED Display Module



10.2mm (.4")
Single-In-Line
.94" H x 1.69" W x .27" D

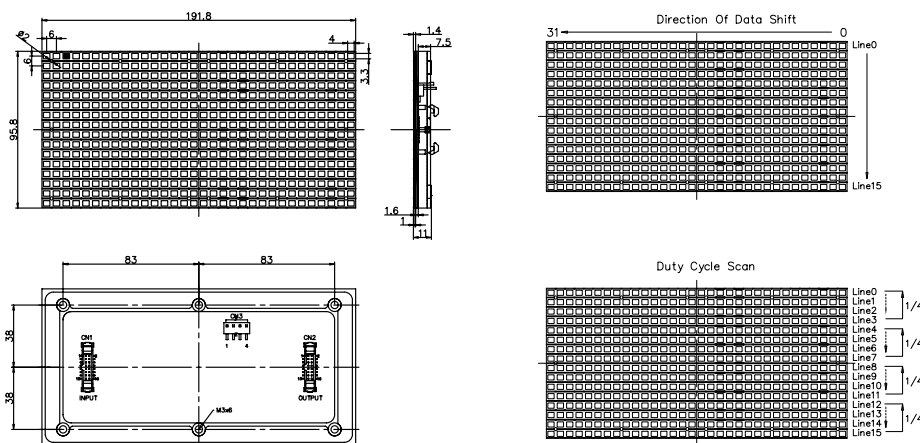


Part No.	Color	λ_d (nm)	Description	$I_f=25mA, 1/8$ Duty (μ cd)
LTM-1008M	Super Red	631	Multiplex Common Anode	5700
	Blue	470		5000

LED Display Module

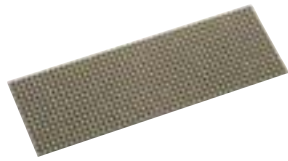


16 x 32 Matrix
Pitch 6
3.77" H x 7.56" W x .43" D

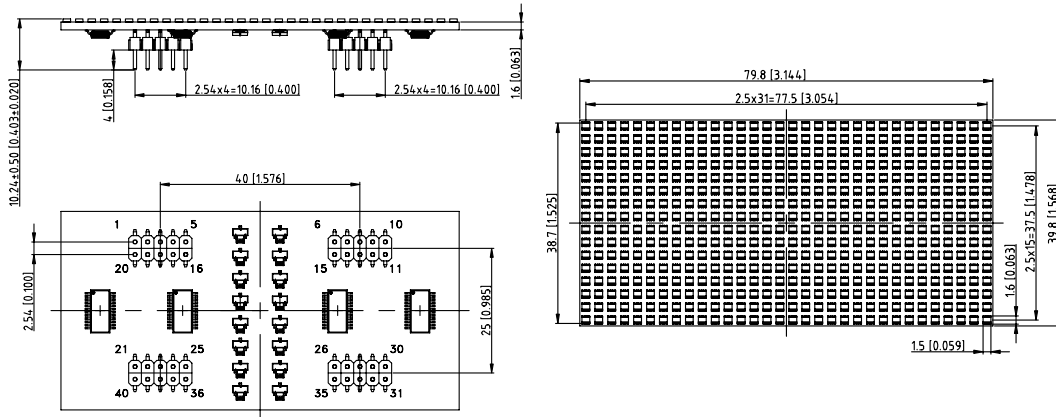


Part No.	Color	λ_d (nm)	Description	Typ.Iv/Dot@ $I_f=20mA$ (mcd)
LTM-1524KS	Amber Yellow	595	Multiplex with IC Driver	2.4

LED Display Module



16 x 48 Matrix
Pitch 2.5
1.53" H x 4.72" W x .06" D



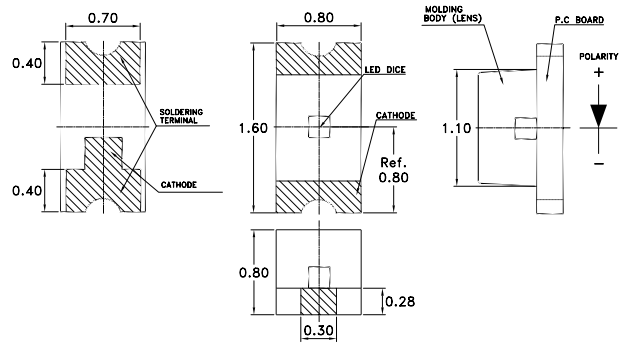
Part No.	Color	λ_d (nm)	Description	Typ.Iv/Seg@ $I_f=10\text{mA}$ (mcd)
LTM-1302SM	■ Super Red	631	Multiplex with IC Driver	10
	■ Yellow Green	571		6.4

Automotive LED

0603 Chip LED



1.6 x 0.8 x 0.55 mm

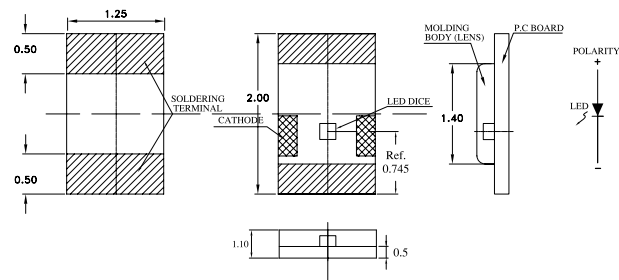


Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_j (°C)	Operating Temperature Range(°C)
LTSA-C191KEKT	Red	624	112	130	2.0	20	450	25	95	-40~85
LTSA-C191KSKT	Yellow	590	112	130	2.0	20	450	25	95	-40~85
LTSA-C191TGK5	True Green	525	112	130	3.0	5	370	20	95	-40~85
LTSA-C191TBK5	Blue	470	56	130	3.0	5	370	10	95	-40~85
LTSA-W191DBS5	Cool White	(0.303, 0.317)	180	130	3.0	5	370	20	95	-40~85

0805 Chip LED

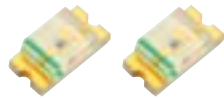


2.0 x 1.25 x 1.1 mm

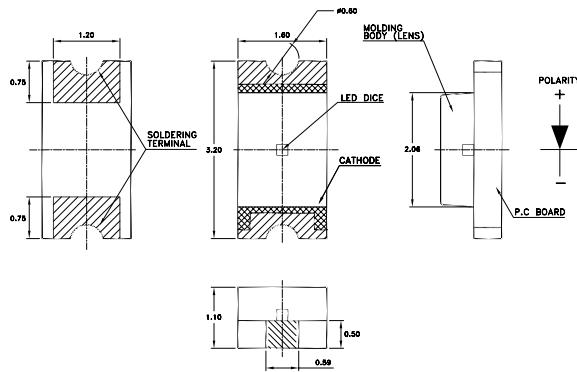


Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_j (°C)	Operating Temperature Range(°C)
LTSA-C170KEKT	Red	624	112	130	2.0	20	450	25	95	-40~85
LTSA-C170KSKT	Yellow	590	112	130	2.0	20	450	25	95	-40~85
LTSA-C170TGKT	True Green	525	230	130	2.0	20	370	20	95	-40~85
LTSA-C170TBKT	Blue	470	90	130	2.0	20	370	20	95	-40~85
LTSA-W170ZTBAT-WT	Ice Blue	(0.201, 0.290)	450	130	3.2	20	370	20	95	-40~85
LTSA-W170DBC5	Cool White	(0.297, 0.310)	180	130	3.0	5	370	20	95	-40~85

1206 Chip LED



3.2 x 0.8 x 1.1 mm

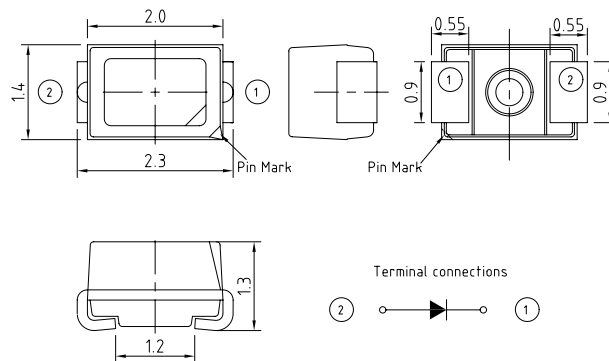


Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_J (°C)	Operating Temperature Range(°C)
LTSA-C150KEKT	Red	624	112	130	2.0	20	450	25	95	-40~85
LTSA-C150KSKT	Yellow	590	112	130	2.0	20	450	25	95	-40~85
LTSA-C150TGK5	True Green	525	180	130	3.0	5	370	10	95	-40~85
LTSA-C150TBK5	Blue	470	56	130	3.0	5	370	20	95	-40~85
LTSA-W150TBA5	Bright Cyan	(0.226, 0.314)	355	130	3.0	5	370	10	95	-40~85
LTSA-C150TBV5	Soft Blue	(0.260, 0.227)	224	130	3.0	5	370	10	95	-40~85
LTSA-C150TBW5	Cool White	(0.299, 0.298)	315	130	3.0	5	370	10	95	-40~85

Mini Top LED



2.3x1.4x1.3 mm

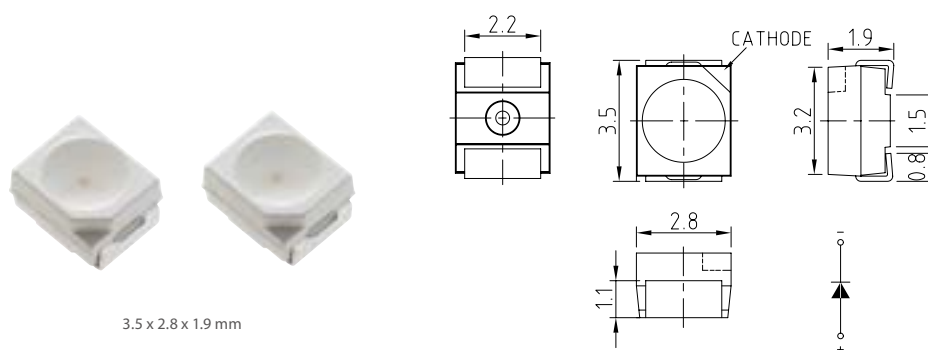


Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_J (°C)	Operating Temperature Range(°C)
LTSA-M67KKEWT	Red	624	180	120	2.0	20	200	30	115	-40~100
LTSA-M67KKSWT	Yellow	590	180	120	2.0	20	200	30	115	-40~100
LTSA-M67KTGW	True Green	525	1400	120	3.0	20	180	30	115	-40~100
LTSA-M67KTBW	Blue	470	224	120	3.0	20	180	30	115	-40~100
LTSA-M67KTHET	Ice Blue	(0.190, 0.276)	1800	120	3.0	20	180	30	115	-40~100
LTSA-M67KTWET	Cool White	(0.300, 0.300)	1800	120	3.0	20	180	30	115	-40~100

LTSA-M67KTWET

Flash LED
SMD LED
Through Hole Lamp
LED Display
Automotive LED
Signage LED
Lighting LED
Infrared Emitter and Detector
Optical Sensors
Photocoupler
UV LED

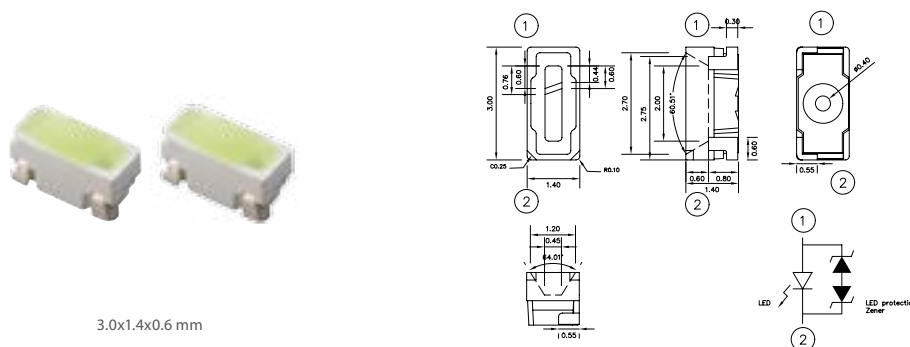
PLCC2 Top LED



3.5 x 2.8 x 1.9 mm

Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_j (°C)	Operating Temperature Range(°C)
L TSA-T680VEWT	Red	624	2800	120	2.6	50	110	50	115	-40~100
L TSA-T680KEWT	Red	624	180	120	2.0	20	250	30	115	-40~100
L TSA-T680VSWT	Yellow	590	2800	120	2.6	50	110	50	115	-40~100
L TSA-T680KSWT	Yellow	590	280	120	2.0	20	250	30	115	-40~100
L TSA-T680ZGWT-3	True Green	525	355	120	3.3	10	250	30	115	-40~100
L TSA-T680ZBWT-3	Blue	470	180	120	3.3	10	120	30	115	-40~100
L TSA-T680ZHET	Ice Blue	(0.190, 0.276)	1400	120	3.0	20	120	30	115	-40~100
L TSA-T680ZWET	Cool White	(0.320, 0.313)	2240	120	3.0	20	120	30	115	-40~100

Side LED_S089



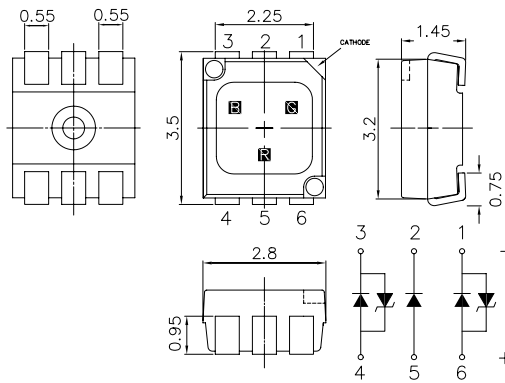
3.0x1.4x0.6 mm

Part No.	Color	CIE(x,y)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_j (°C)	Operating Temperature Range(°C)
L TSA-S089ZHET	Ice Blue	(0.190, 0.276)	5	120	3.1	20	260	30	110	-40~100
L TSA-S089ZWET	Cool White	(0.316, 0.333)	9	120	3.0	20	260	50	110	-40~100

Multi Color 3-in-1 Top LED_G683



3.5x2.8x1.45 mm

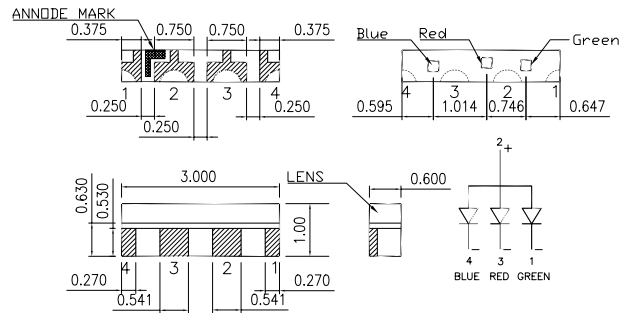


Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ ($^{\circ}C/W$)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_J ($^{\circ}C$)	Operating Temperature Range($^{\circ}C$)
L TSA-G683ZBEGWU	Red	624	560	120	2.0	20	170	30	115	-40~110
	True Green	530	1400		3.0	20	170	30	125	
	Blue	470	280		3.0	20	170	30	125	

Multi Color 3-in-1 Side LED_S33



3.0x1.0x0.6 mm



Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ ($^{\circ}C/W$)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_J ($^{\circ}C$)	Operating Temperature Range($^{\circ}C$)
L TSA-S33GBEGK5	Red	624	180	130	2.0	5	450	20	95	-40~85
	True Green	530	180	130	2.8	5	370	20	95	
	Blue	470	112	130	2.8	5	370	20	95	

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and Detector

Optical Sensors

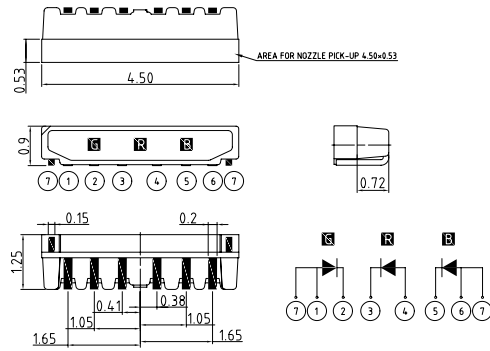
Photocoupler

UV LED

Multi Color 3-in-1 Side LED_S008



4.5 x 1.25 x 0.8 mm

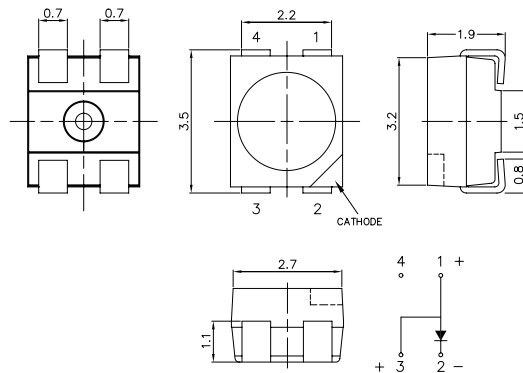


Part No.	Color	λ_d (nm)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_J (°C)	Operating Temperature Range(°C)
LTSA-S008RGBWA	Red	624	1.5	120	2.0	20	220	30	125	-40~100
	True Green	530	0.5	120	3.0	20	220	20	125	
	Blue	470	0.5	120	3.0	20	220	20	125	

PLCC4 Top LED



3.5 x 2.8 x 1.9 mm

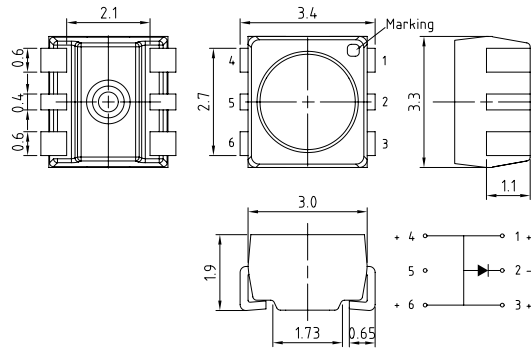


Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_J (°C)	Operating Temperature Range(°C)
LTSA-E67RVEWT	Red	624	2800	120	2.2	50	110	70	115	-40~100
LTSA-E67RVAWT	Amber	615	2800	120	2.2	50	110	70	115	-40~100
LTSA-E67RVS WT	Yellow	590	2800	120	2.2	50	110	70	115	-40~100
LTSA-E67RZHET	Ice Blue	(0.190, 0.276)	1800	120	3.0	15	120	30	115	-40~100
LTSA-E67RZWET	Cool White	(0.320, 0.313)	4500	120	3.2	50	120	80	115	-40~100

PLCC6 Top LED



3.4 x 3.3 x 1.9 mm

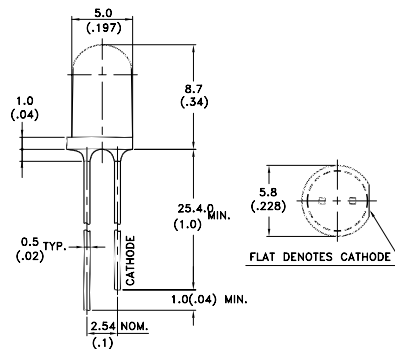


Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_j (°C)	Operating Temperature Range(°C)
LTSA-G6SPVEKT	Red	624	5600	120	2.2	140	30	200	125	-40~110
LTSA-G6SPVAKT	Amber	615	7100	120	2.2	140	30	200	125	-40~110
LTSA-G6SPVSKT	Yellow	590	5600	120	2.2	140	30	200	125	-40~110
LTSA-G6SVUWET	Cool White	(0.320, 0.313)	11200	120	3.2	140	25	200	125	-40~110
LTSA-G6SVUAET	PC Amber	(0.570, 0.420)	4500	120	3.2	140	25	200	125	-40~110

5mm Through Hole Lamp

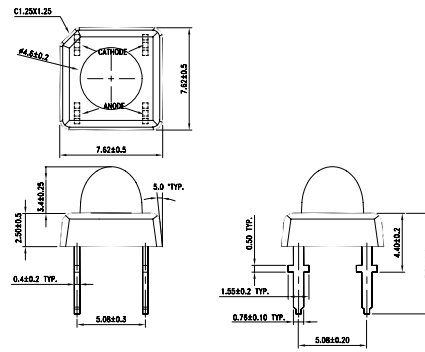


5mm round, T1 3/4



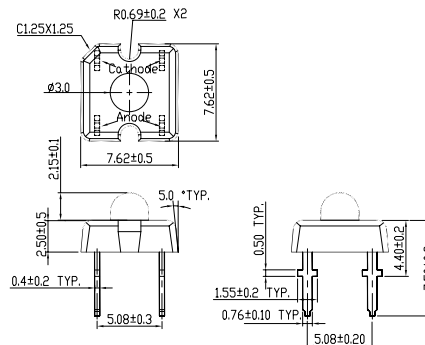
Part No.	Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_j (°C)	Operating Temperature Range(°C)
LTLA2R3EW3K	Red	624	5500	30	2.0	20	320	50	125	-40~100
LTLA2H3VYY1K	Yellow	590	12000	30	2.0	20	320	50	125	-40~100
LTLA2R3YW3K	Yellow	590	5500	30	2.0	20	320	50	125	-40~100

25° Piranha



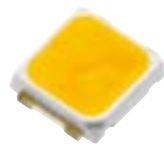
Part No.	Color	λ_d (nm)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_j (°C)	Operating Temperature Range(°C)
LTLA916VAJ2K	Amber	615	8	25	2.2	70	70	70	125	-40~110
LTLA916VYJ2K	Yellow	590	8	25	2.2	70	70	70	125	-40~110

30° Piranha

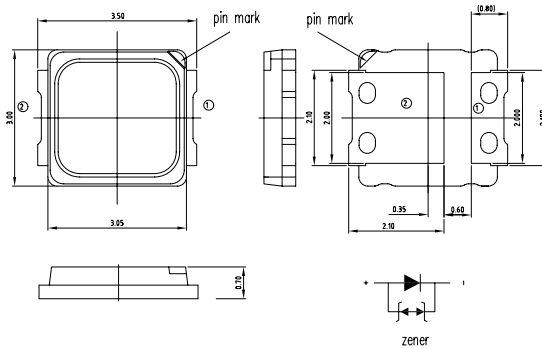


Part No.	Color	λ_d (nm)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_j (°C)	Operating Temperature Range(°C)
LTLA918VEJ3K	Red	624	6	30	2.2	50	70	50	110	-40~100
LTLA918VYJ3K	Yellow	590	6	30	2.2	50	70	50	110	-40~100

High Power LED_P3030



3.5 x 3.0 x 0.7 mm

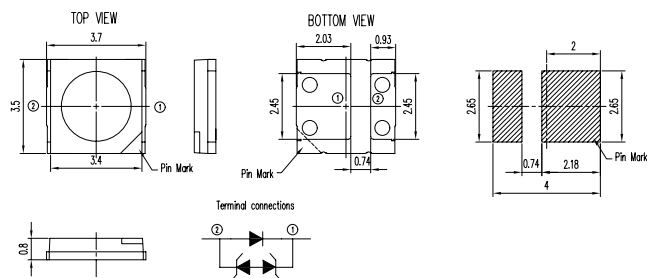


Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_j (°C)	Operating Temperature Range(°C)
LTPA-P3030CNPKE	Red	624	40	120	2.2	350	10	400	125	-40~100
LTPA-P3030CNPTG	True Green	525	65	120	3.4	350	10	400	125	-40~100
LTPA-P3030ANPTB	Blue	470	30	120	3.2	350	10	500	125	-40~100
LTPA-P3030CWP57	Cool White	(0.325, 0.340)	140	120	3.2	350	10	400	125	-40~100
LTPA-P3030CBPPA	PC Amber	(0.570, 0.420)	100	120	3.2	350	10	400	125	-40~100

High Power LED_P35



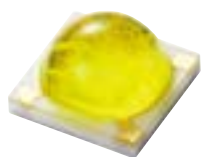
3.5 x 3.7 x 0.8 mm



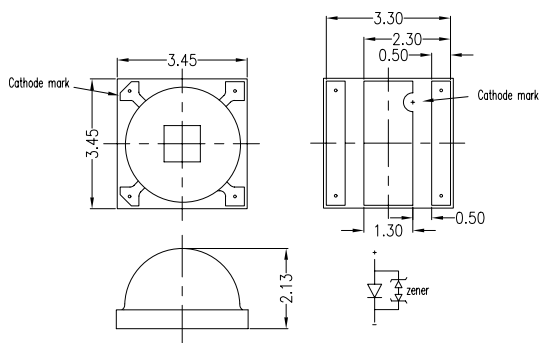
Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_j (°C)	Operating Temperature Range(°C)
LTPA-P35PUDNPKE (Gold Plating)	Red	620	50	120	2.2	350	10	400	125	-40~100
LTPA-P3535CWP	Cool White	(0.325, 0.340)	160	120	3.2	350	10	500	125	-40~100
LTPA-P35PUCWP (Gold Plating)	Cool White	(0.325, 0.340)	110	120	3.2	350	10	500	125	-40~100
LTPA-P3535CBPPA	PC Amber	(0.570, 0.420)	140	120	3.2	350	10	500	125	-40~100
LTPA-P35PUCBPPA (Gold Plating)	PC Amber	(0.570, 0.420)	80	120	3.2	350	10	500	125	-40~100

Flash LED
SMD LED
Through Hole Lamp
LED Display
Automotive LED
Signage LED
Lighting LED
Infrared Emitter and Detector
Optical Sensors
Photocoupler
UV LED

High Power LED_C35



3.45 x 3.45 x 2.13 mm

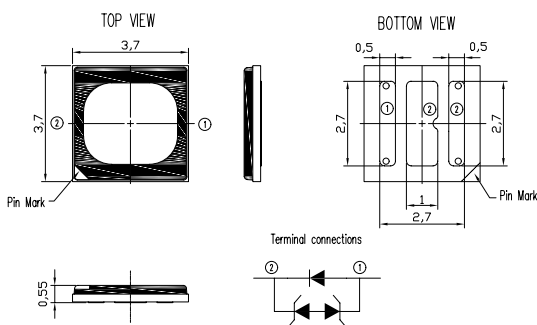


Part No.	Color	λ_d (nm)/ CIE(x,y)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_J (°C)	Operating Temperature Range(°C)
LTPA-C3535CNPKE	Red	624	65	130	2.2	350	15	500	125	-40~125
LTPA-C3535CNPTG	True Green	525	100	130	3.4	350	15	500	125	-40~125
LTPA-C3535ANPTB	Blue	470	45	130	3.2	350	15	500	125	-40~125
LTPA-C3535AWP	Cool White	(0.325, 0.340)	140	118	3.2	350	9.5	700	125	-40~125
LTPA-C3535BWP57	Cool White	(0.325, 0.340)	130	118	3.2	350	15	500	125	-40~125
LTPA-C35NUAWP	Cool White	(0.325, 0.340)	120	118	3.2	350	9.5	700	125	-40~125
LTPA-C3535BBPPA	PC Amber	(0.570, 0.420)	110	118	3.2	350	15	500	125	-40~125
LTPA-C35NUBBPPA	PC Amber	(0.570, 0.420)	85	118	3.2	350	15	500	125	-40~125

High Power LED_S38



3.75 x 3.75 x 0.55 mm



Part No.	Color	CIE(x,y)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ (°C/W)	Max. Forward Current I_f (mA)	Max. Junction Temperature T_J (°C)	Operating Temperature Range(°C)
▶ LTPA-S38FUMWE	Cool White	(0.325, 0.340)	240	120	3.0	700	5.5	1200	150	-40~125
▶ LTPA-S38FUMBPPA	PC Amber	(0.570, 0.420)	80	120	3.0	350	5.5	700	150	-40~125

▶ New

High Power LED_C1915



1.9 x 1.5 x 0.75 mm

Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th(j-s)}$ ($^{\circ}C/W$)	Max. Forward Current I_F (mA)	Max. Junction Temperature T_j ($^{\circ}C$)	Operating Temperature Range ($^{\circ}C$)
▶ LTPA-C1915	5600K	230	120	3.4	700	5	1200	150	-40~125

▶ Under Development

High Intensity Chip Array



3.1 x 3.8 x 0.75 mm



4.2 x 3.8 x 0.75 mm



5.3 x 3.8 x 0.75 mm



6.4 x 3.8 x 0.75 mm

Part No.	Correlated color temperature (K)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th(j-s)}$ ($^{\circ}C/W$)	Max. Forward Current I_F (mA)	Max. Junction Temperature T_j ($^{\circ}C$)	Operating Temperature Range ($^{\circ}C$)
▶ LTPA-H2S3138	5600K	640	118	6.8	1000	1.6	1500	150	-40~125
▶ LTPA-H3S4238	5600K	960	118	10.2	1000	1.3	1500	150	-40~125
▶ LTPA-H4S5338	5600K	1280	118	13.6	1000	1.1	1500	150	-40~125
▶ LTPA-H5S6438	5600K	1600	118	17.0	1000	0.9	1500	150	-40~125

▶ Under Development

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and Detector

Optical Sensors

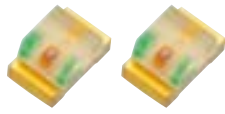
Photocoupler

UV LED

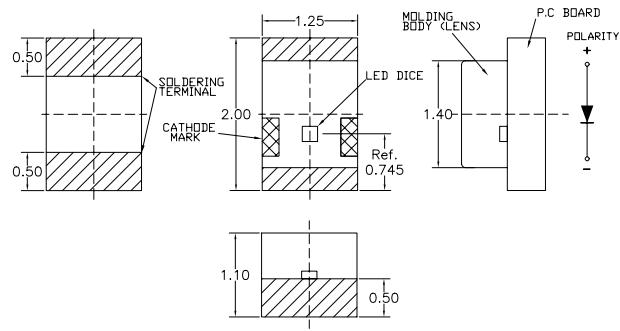


| Signage LED

Chip LED Single Color

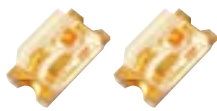


2.0 x 1.25 x 1.1 mm

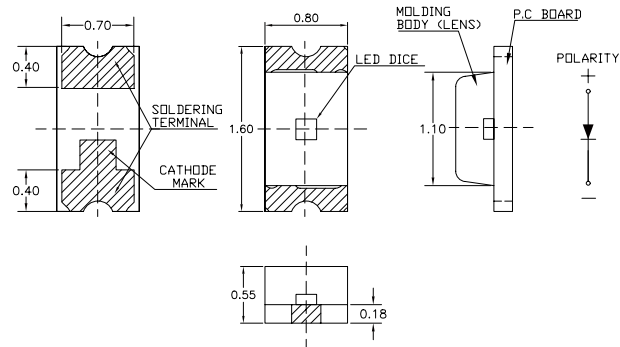


Part No.	Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTSN-C170KSWT	Yellow	590	120	280	130	2	20
LTSN-C170DS	White	(0.31, 0.31)	280	710	130	3.3	20

Chip LED Single Color



1.6 x 0.8 x 0.55 mm



Part No.	Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTSN-C191KSKT	Yellow	590	112	224	130	2	20
LTSN-C191DS	White	(0.31, 0.31)	355	900	130	3.3	20

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

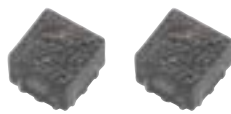
Infrared Emitter and
Detector

Optical Sensors

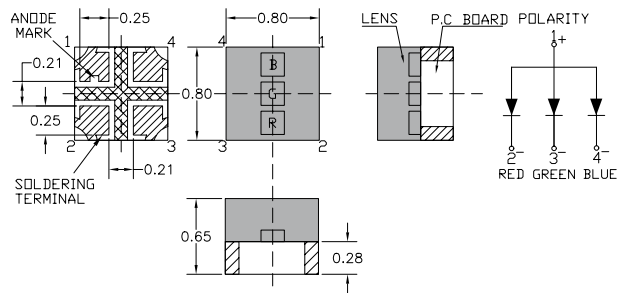
Photocoupler

UV LED

Chip LED Multi Color



0.8 x 0.8 x 0.65 mm

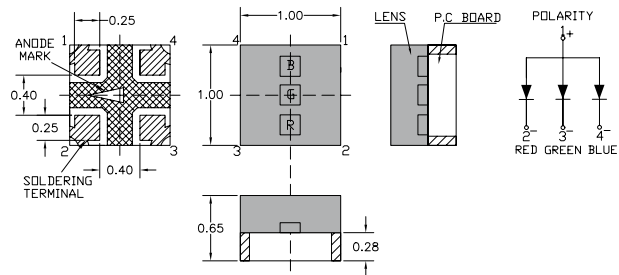


Part No.	Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTSN-B68JEGBB6	■ Red	624	17.1	38.6	130	2	5
	■ True Green	525	80.2	180.5		3.3	
	■ Blue	470	9.5	32.2		3.3	

Chip LED Multi Color

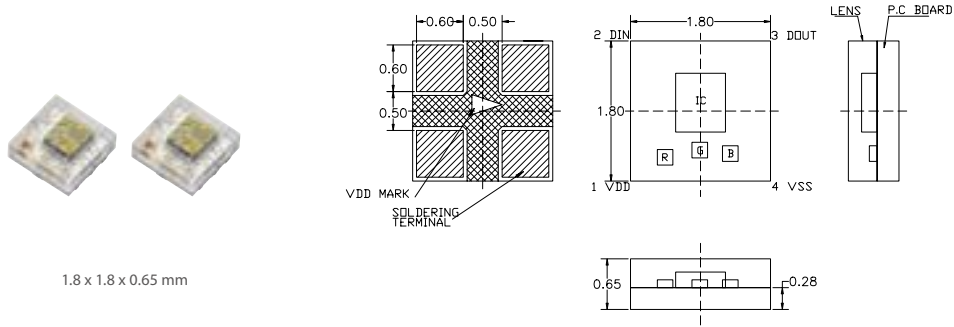


1.0 x 1.0 x 0.65 mm



Part No.	Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTSN-B32JEGBB6	■ Red	624	16.4	45	130	2	5
	■ True Green	525	53.3	180		3.3	
	■ Blue	470	13	44		3.3	

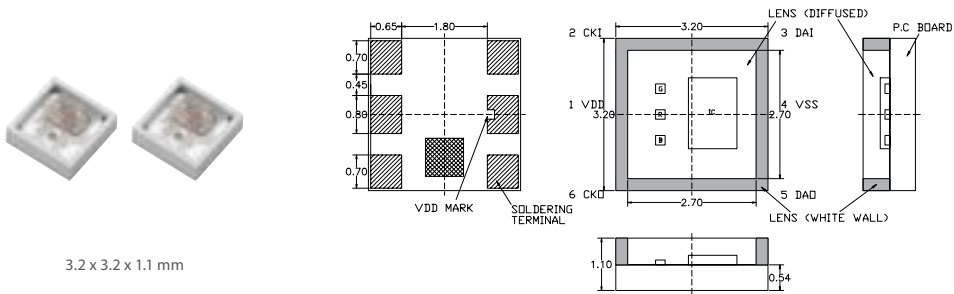
Chip LED Multi Color (IC Embedded)



1.8 x 1.8 x 0.65 mm

Part No.	Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTSN-E263HEGBK	Red	624	280	1120	120	2	18
	True Green	525	180	710		3.3	
	Blue	470	71	280		3.3	

Chip LED Multi Color (IC Embedded)



3.2 x 3.2 x 1.1 mm

Part No.	Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTSN-E363CEGBW	Red	624	165	675	120	2	14
	True Green	525	990	4000		3.3	
	Blue	470	142	580		3.3	

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and Detector

Optical Sensors

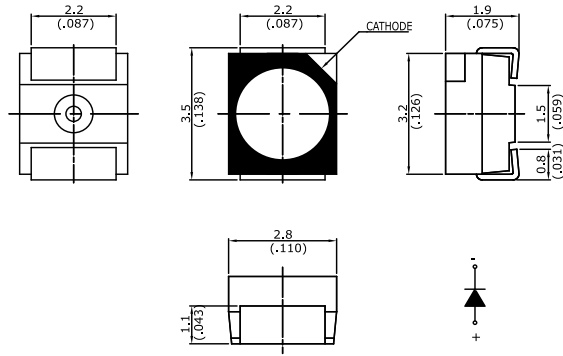
Photocoupler

UV LED

PLCC Single Color



3.5 x 2.8 x 1.9 mm

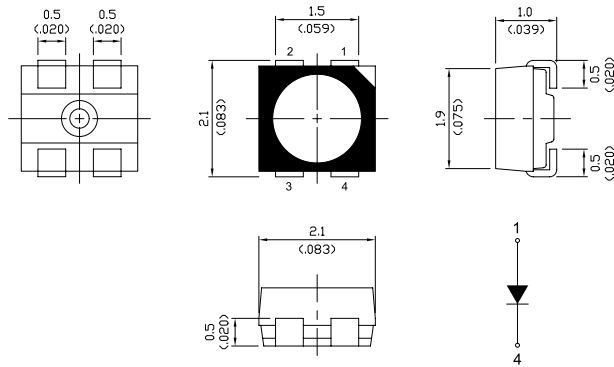


Part No.	Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTST-B680VEKT	■ Red	624	710	1400	120	2	20
LTST-B680VSKT	■ Yellow	589	900	1800	120	2	20
LTST-B680UGKT	■ True Green	525	900	1800	120	3.2	20
LTST-B680UWET	■ White	(0.31, 0.31)	1800	2800	120	3.2	20

PLCC Single Color



2.1 x 2.1 x 1.0 mm

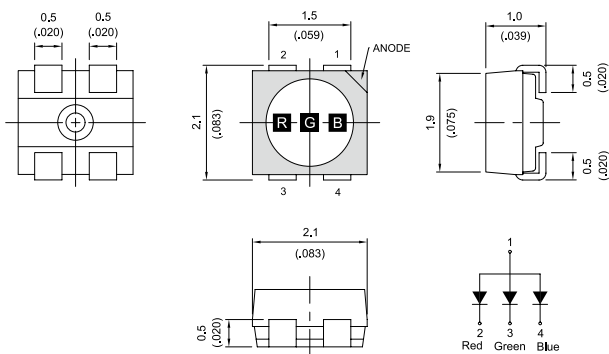


Part No.	Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTSN-N211QSWT	■ Yellow	589	355	900	120	2	20
LTSN-N211VSWT	■ Yellow	589	710	1400	120	2	20
LTSN-N211UWET	■ White	(0.31, 0.31)	1500	2900	120	3.2	20

PLCC Multi Color



2.1 x 2.1 x 1.0 mm

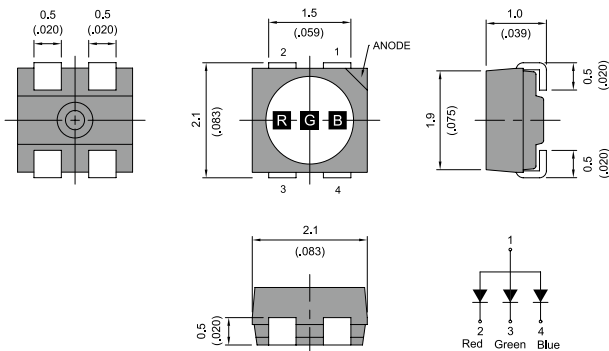


Part No.	Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTSN-N213EGBW	Red	624	345	720	120	2	20
	True Green	525	280	570		3.2	5
	Blue	470	70	140		3.2	5

PLCC Multi Color



2.1 x 2.1 x 1.0 mm



Part No.	Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTSN-H213EGBW	Red	624	39	104	120	2	5
	True Green	525	124	288		3.2	5
	Blue	470	22	59		3.2	5

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

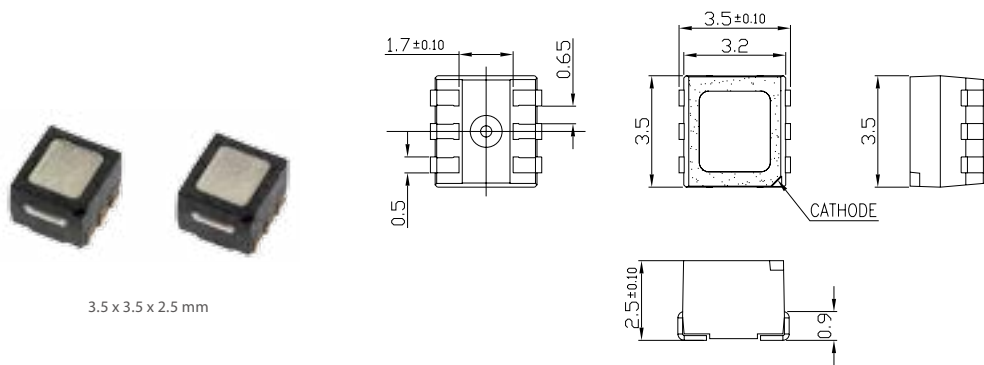
Infrared Emitter and Detector

Optical Sensors

Photocoupler

UV LED

PLCC Multi Color

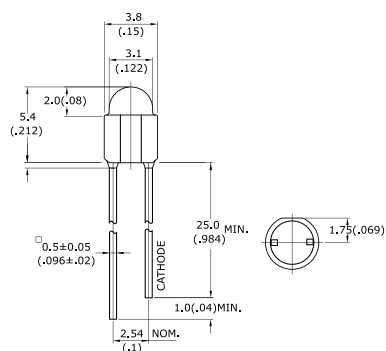


Part No.	Color	λ_d (nm)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTSN-D353EGBW	Red	624	560	1120	120	2	20
	True Green	525	1120	2240		3.2	20
	Blue	470	280	560		3.2	20

Through Hole Lamp_3mm



3mm Round

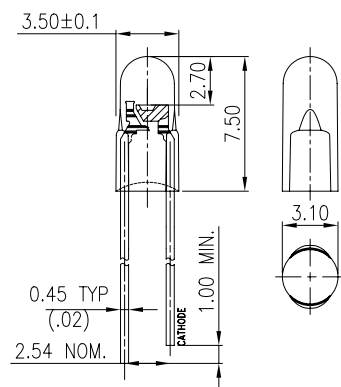


Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2 $\theta_{1/2}$	Typ. Forward Voltage V _F (V)
LTL17KET3KS	Red	Water Clear	624	2500	5500	30	2.1
LTL17KTGX3KS	True Green	Water Clear	525	5500	9300	30	3.2
LTL17KTBS3KS	Blue	Water Clear	470	1500	3200	30	3.2

Through Hole Lamp_3mm



3mm Round

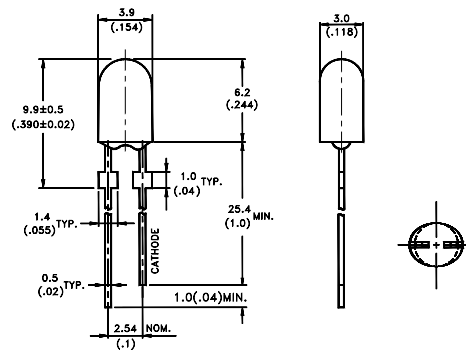


Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle 2 $\theta_{1/2}$	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTL1SHEW3KS	Red	Water Clear	625	4200	5000	30	2.1	20
LTL1SHER3D	Red	Red Diffused	624	1500	3200	30 (min.)	2.1	20
LTL1SHYW3KS	Yellow	Water Clear	590	4200	5000	30	2.1	20
LTL1SHTGV3DP	True Green	Green Diffused	525	7200	12000	35	3.2	20
LTL1SHTBN3DP	Blue	Water Clear	470	1500	2500	35	3.2	20

Through Hole Lamp_3mm



3mm Oval

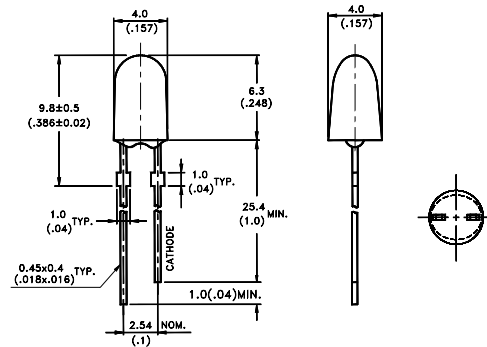


Part No.	Color	Resin Color	λ_d (nm)	Typ. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL3H3EPADS	Red	Red Diffused	624	1300	100/50	2.1	20
LTL3H3TGTADS	True Green	Green Diffused	525	3600	100/50	3.2	20
LTL3H3TBNADS	Blue	Blue Diffused	470	700	100/50	3.2	20

Through Hole Lamp_4mm

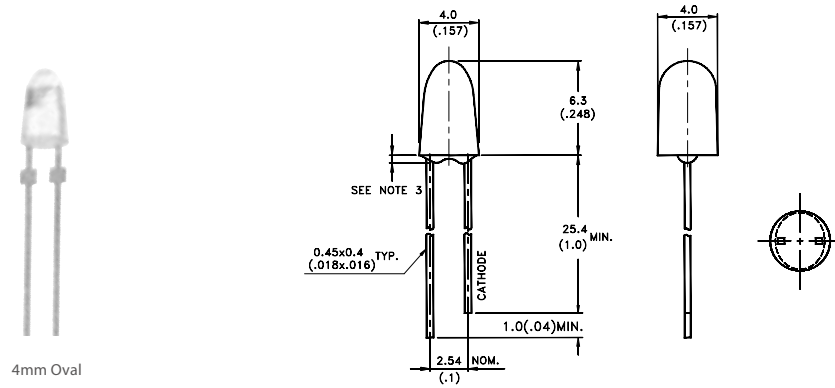


4mm Oval



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)
LTL4HMEPADS	Red	Red Diffused	624	520	1500	110/50	2.1	20
LTL4HMWSDS-A	Yellow	Yellow Diffused	590	680	1500	110/50	2.1	20
LTL4HMYSADS	Yellow	Yellow Diffused	590	950	2100	110/50	2.1	20
LTW4HMDVAJS	White	White Diffused	(0.32, 0.33)	3200	7200	100/50	2.1	20

Through Hole Lamp_4mm



Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTL4VMYS5D	Yellow	Yellow Diffused	590	950	2100	50/100	2.1	20
LTW4VMDV5JS	White	White Diffused	(0.3, 0.3)	2100	4200	50/100	3.2	20

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and
Detector

Optical Sensors

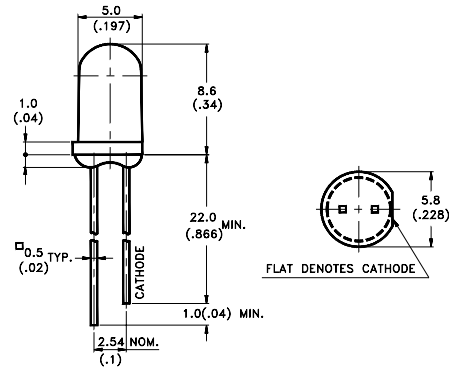
Photocoupler

UV LED

Through Hole Lamp_5mm



5mm Round

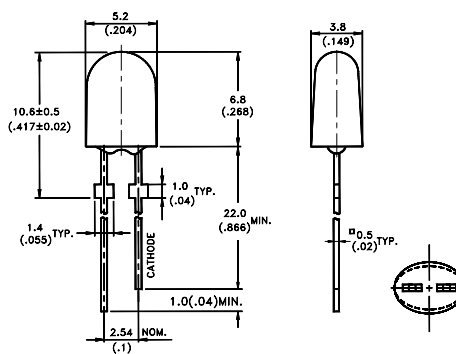


Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I_v (mcd)	Max. Luminous Intensity I_v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTL2H3E11K	Red	Water Clear	625	12000	16000	15	2.1	20
LTL2P3EX2K	Red	Water Clear	625	9300	12000	23	2.1	20
LTL2V3EY3KS	Red	Water Clear	625	7200	9300	30	2.1	20
LTL2V3EUJS	Red	White Diffused	625	2500	4200	36	2.1	20
LTL2R3FU3JSR	Amber	White Diffused	607	880	1900	30	1.9	10
LTL2H3Y11K	Yellow	Water Clear	590	7200	9300	15	2.1	20
LTL2P3YX2K	Yellow	Water Clear	590	9300	12000	23	2.1	20
LTL2R3YW3KS	Yellow	Water Clear	590	3800	4200	30	2.1	20
LTL2R3TGY3KS	Ture Green	Water Clear	525	7800	9600	30	3.2	20
LTL2H3TC21K	Cyan	Water Clear	505	15000	26000	15	3.2	20
LTL2P3TCY2K	Cyan	Water Clear	505	9300	12000	23	3.2	20
LTL2R3TCY3JS	Cyan	White Diffused	505	7200	9300	30	3.2	20
LTW2V3D13JS	White	White Diffused	(0.32, 0.33)	12000	27000	30	3.2	20
LTW-2S3D8-CY	White	Water Clear	(0.3, 0.3)	13000	29000	15	3.2	20

Through Hole Lamp_5mm



5mm Oval

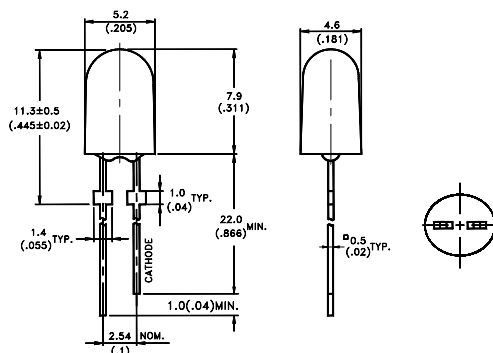


Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTL5H3TRDS	Red	Red Diffused	624	720	2040	110/45	2.1	20
LTL5H3TGDS	True Green	Green Diffused	525	2300	6300	110/45	3.1	20
LTL5H3TBDS	Blue	Blue Diffused	470	430	1210	110/45	3.2	20
LW5H3DVAJS	White	White Diffused	(0.32, 0.33)	2500	5500	110/55	3.2	20

Through Hole Lamp_5mm



5mm Oval

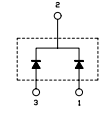
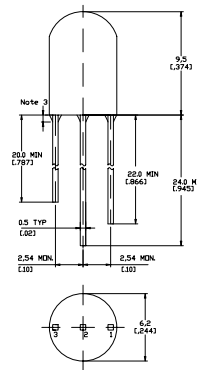


Part No.	Color	Resin Color	λ_d (nm)/ CIE (x,y)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTL5L3E57D	Red	Red Diffused	624	1900	5500	70/35	2.1	20
LTL5L3YU7DS	Yellow	Yellow Diffused	591	3200	9300	70/35	2.1	20
LTL5L3TGV7D	True Green	Green Diffused	530	4200	12000	70/35	3.2	20
LW5L3DW7JS	White	White Diffused	(0.32, 0.33)	4200	9300	70/35	3.2	20

Through Hole Lamp_5mm_Dual Color



5mm Oval

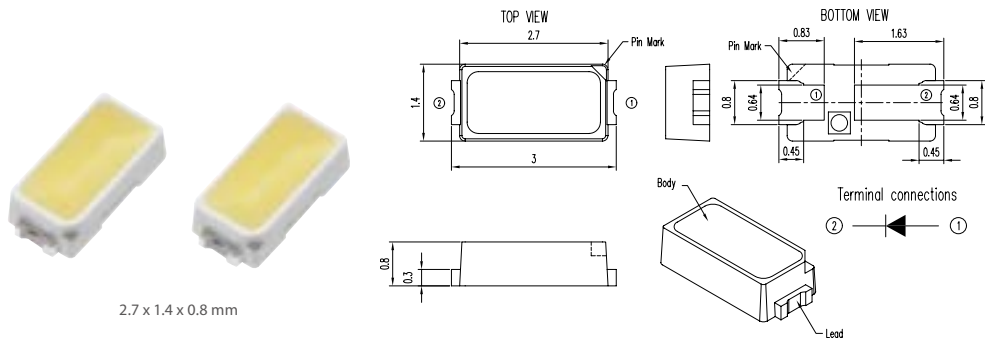


- 1. Green Cathode
- 2. Common Anode
- 3. Red Cathode

Part No.	Color	Resin Color	λ_d (nm)	Min. Luminous Intensity I _v (mcd)	Max. Luminous Intensity I _v (mcd)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)
LTL30SETG3J	■ Red	White Diffused	630	2500	7200	30	2.1	20
	■ True Green		525	520	1500		3.2	

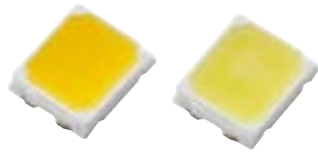
| Lighting LED

Middle Power

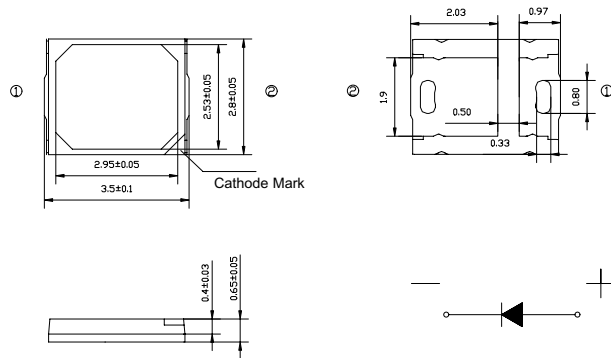


Part No.	Correlated color temperature (K)	CRI Ra (min.)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th(j-s)}$ ($^{\circ}C/W$)
LTW-K140SZR27-EU	2700	80	23.5	120	3.2	60	30
LTW-K140SZR30-EU	3000	80	25	120	3.2	60	30
LTW-K140SZR40-EU	4000	80	26	120	3.2	60	30
LTW-K140SZR50-EU	5000	80	26.5	120	3.2	60	30
LTW-K140SZR57-EU	5700	80	26	120	3.2	60	30
LTW-K140SZR65-EU	6500	80	26	120	3.2	60	30
LTW-K140SXR85	8500	-	23	120	3.2	60	30

Middle Power

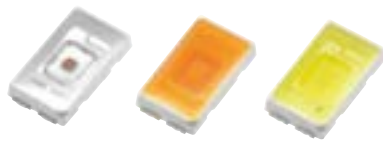


2.8 x 3.5 x 0.65 mm

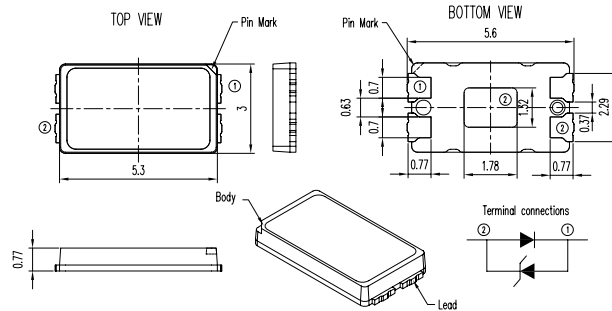


Part No.	Correlated color temperature (K)	CRI Ra (min.)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th(j-s)}$ ($^{\circ}C/W$)
LTW-2835SZK27	2700	80	24.4	120	3.0	60	35
LTW-2835AZH27	2700	80	31	120	2.8	65	16
LTW-2835AZI27	2700	80	31	120	2.7	65	8
LTW-2835TZN27	2700	80	115	120	9.1	100	15
LTW-2835AZL27	2700	80	61.4	120	3.1	150	21
LTW-2835SZK30	3000	80	26	120	3.0	60	35
LTW-2835AZH30	3000	80	31.5	120	2.8	65	16
LTW-2835AZI30	3000	80	31.5	120	2.7	65	8
LTW-2835TZN30	3000	80	118	120	9.1	100	15
LTW-2835AZL30	3000	80	62.9	120	3.1	150	21
LTW-2835SZK40	4000	80	27.5	120	3.0	60	35
LTW-2835AZH40	4000	80	33	120	2.8	65	16
LTW-2835AZI40	4000	80	33	120	2.7	65	8
LTW-2835TZN40	4000	80	125	120	9.1	100	15
LTW-2835AZL40	4000	80	65.3	120	3.1	150	21
LTW-2835SZK50	5000	80	28	120	3.0	60	35
LTW-2835AZH50	5000	80	34	120	2.8	65	16
LTW-2835AZI50	5000	80	34	120	2.7	65	8
LTW-2835TZN50	5000	80	128	120	9.1	100	15
LTW-2835AZL50	5000	80	67.0	120	3.1	150	21
LTW-2835SZK57	5700	80	28	120	3.0	60	35
LTW-2835AZH57	5700	80	33.5	120	2.8	65	16
LTW-2835AZI57	5700	80	33.5	120	2.7	65	8
LTW-2835TZN57	5700	80	128	120	9.1	100	15
LTW-2835AZL57	5700	80	67.0	120	3.1	150	21
LTW-2835SZK65	6500	80	27.5	120	3.0	60	35
LTW-2835AZH65	6500	80	33	120	2.8	65	16
LTW-2835AZI65	6500	80	33	120	2.7	65	8
LTW-2835TZN65	6500	80	125	120	9.1	100	15
LTW-2835AZL65	6500	80	65.3	120	3.1	150	21

Middle Power

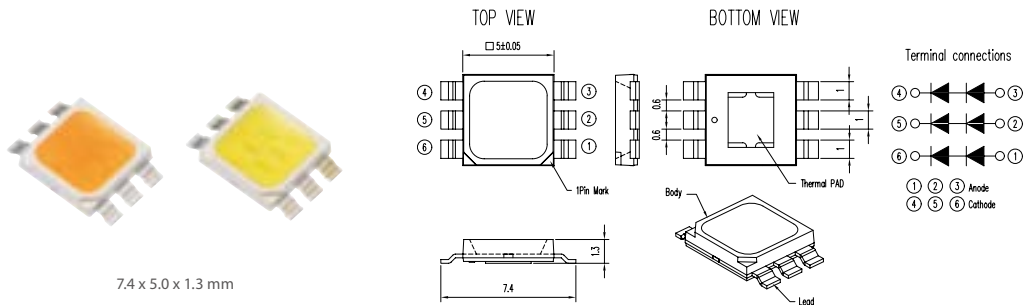


5.6 x 3.0 x 0.9 mm



Part No.	Correlated color temperature (K)	CRI Ra (min.)	λ_d (nm)	λ_p (nm)	Typ. Luminous Flux Φ_v (lm)	Typ. Radiant Flux (mW)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance $R_{th(j-s)}$ ($^{\circ}C/W$)
LTW-5630AZL27-EUH	2700	80	-	-	30.3	-	120	2.8	65	13
LTW-5630AQL27	2700	90	-	-	44.5	-	120	3.0	120	13
LTW-5630AZL30-EUH	3000	80	-	-	32.2	-	120	2.8	65	13
LTW-5630AQL30	3000	90	-	-	47.2	-	120	3.0	120	13
LTW-5630AZL40-EUH	4000	80	-	-	33.1	-	120	2.8	65	13
LTW-5630AQL40	4000	90	-	-	48.0	-	120	3.0	120	13
LTW-5630AZL50-EUH	5000	80	-	-	33.8	-	120	2.8	65	13
LTW-5630AQL50	5000	90	-	-	49.0	-	120	3.0	120	13
LTW-5630AZL57-EUH	5700	80	-	-	33.7	-	120	2.8	65	13
LTW-5630AQL57	5700	90	-	-	48.0	-	120	3.0	120	13
LTW-5630AZL65-EUH	6500	80	-	-	33.2	-	120	2.8	65	13
LTW-5630AQL65	6500	90	-	-	47.2	-	120	3.0	120	13
LTW-5630SD458	-	-	458	-	9	250	120	3.1	150	13
LTW-5630SD470	-	-	470	-	13.7	170	120	3.1	150	13
LTW-5630SD530	-	-	530	-	37	71.6	120	3.2	150	13
LTW-5630SD590	-	-	590	-	26	53	120	2.5	150	13
LTW-5630SD630	-	-	630	-	16	100	120	2.4	150	13
LTW-5630SP660	-	-	-	660	8.2	127	120	2.2	150	13
LTW-5630SP730	-	-	-	730	-	160	120	2.0	150	13
LTW-5630SP750	-	-	-	750	-	82	120	2.0	150	13

Middle Power



Part No.	Correlated color temperature (K)	CRI Ra (min.)	Typ. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th(j-s)}$ ($^{\circ}C/W$)
LTPL-P033BS50	5000	70	193	120	5.6	180	2.6
LTPL-P033BS40	4000	70	192	120	5.6	180	2.6
LTPL-P033BS30	3000	70	187	120	5.6	180	2.6

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

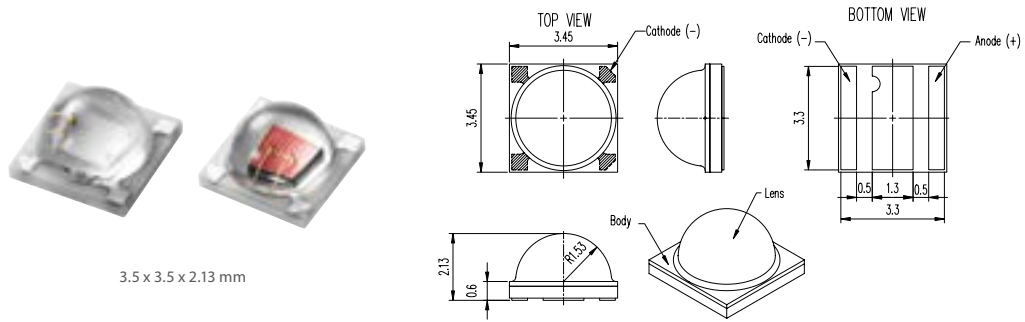
Infrared Emitter and Detector

Optical Sensors

Photocoupler

UV LED

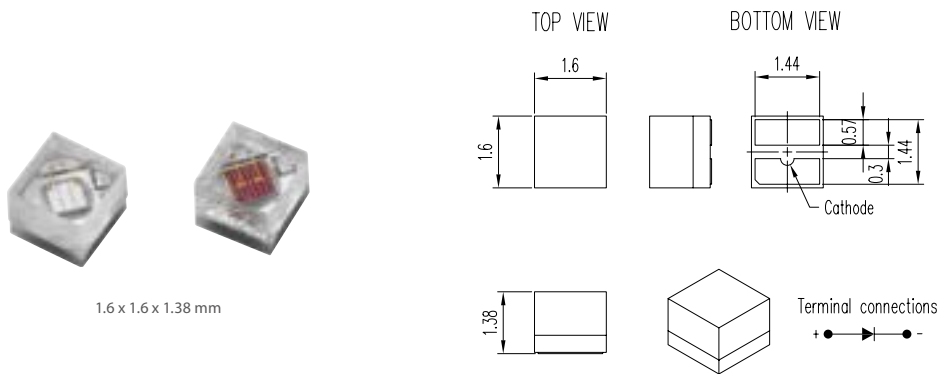
High Power



3.5 x 3.5 x 2.13 mm

Part No.	Color	λ_c (nm)	λ_p (nm)	Min. Luminous Flux Φ_v (lm)	Max. Luminous Flux Φ_v (lm)	Min. Radiant Flux (mW)	Max. Radiant Flux (mW)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ ($^{\circ}C/W$)
LTPL-C035RH630	Red	630	-	42	72	-	-	130	2.4	350	4.4
LTPL-C035RN615	Orange Red	615	-	24	36	-	-	130	2.3	140	13.3
LTPL-C035GH530	True Green	530	-	90	150	-	-	130	3	350	9
LTPL-C035GH500	Cyan	500	-	61	100	-	-	130	3.2	350	9
LTPL-C035BH470	Blue	470	-	-	-	420	600	130	3.1	350	9.5
LTPL-C035BH450	Blue	450	-	-	-	510	690	130	3.3	350	9.5
LTPL-C035RH660	-	-	660	-	-	360	480	130	2.1	350	4.1
LTPL-C035RH730	-	-	730	-	-	230	310	130	2	350	5.6

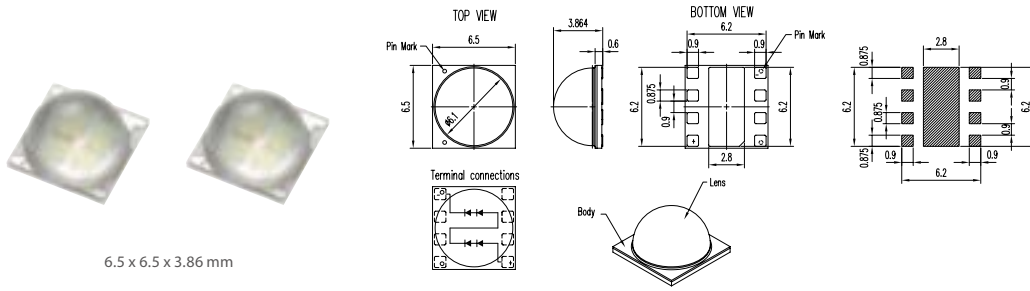
High Power



1.6 x 1.6 x 1.38 mm

Part No.	Color	λ_c (nm)	λ_p (nm)	Min. Luminous Flux Φ_v (lm)	Max. Luminous Flux Φ_v (lm)	Min. Radiant Flux (mW)	Max. Radiant Flux (mW)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ ($^{\circ}C/W$)
LTPL-C16FRD630	Red	630	-	36	56	-	-	135	2.2	350	7.3
LTPL-C16FGH530	True Green	530	-	110	160	-	-	135	3	500	9.6
LTPL-C16FBD470	Blue	470	-	22	32	-	-	135	3.2	350	5.5
LTPL-C16FRD660	-	-	660	-	-	220	320	135	2.1	350	5.8
LTPL-C16FRM780	-	-	780	-	-	27	39	135	1.9	50	33.3

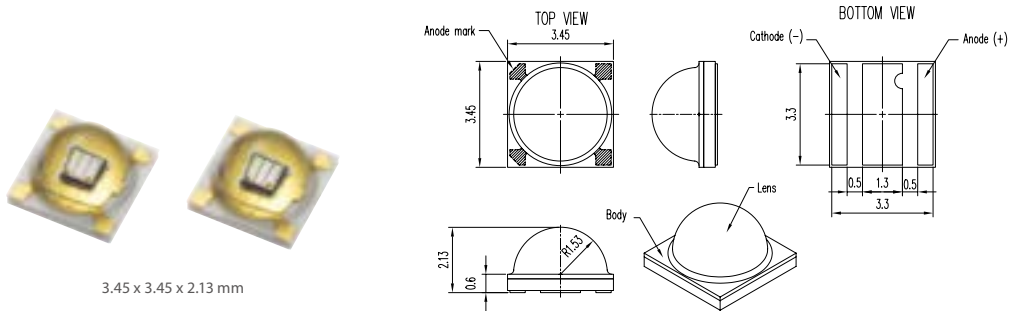
High Power



6.5 x 6.5 x 3.86 mm

Part No.	Color	λ_d (nm)	Min. Luminous Flux Φ_v (lm)	Max. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance $R_{th(j-s)}$ ($^{\circ}C/W$)
LTPL-C08ERS	■ Red	624	240	330	130	10	350	3.5
LTPL-C08EAS	■ True Green	588	380	580	130	12	350	3.5
LTPL-C08ECT	■ Blue	500	250	380	130	13.2	350	3.5

High Power



3.45 x 3.45 x 2.13 mm

Part No.	Color	λ_d (nm)	Min. Luminous Flux Φ_v (lm)	Max. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_F (V)	Forward Current I_F (mA)	Thermal Resistance $R_{th(j-s)}$ ($^{\circ}C/W$)
LTPL-C034AH610	■ Red	610	74	120	130	2.4	350	4.6
LTPL-C034OH590	■ Yellow	590	50	100	130	2.4	350	6.4
LTPL-C034DH	■ Yellow	550	80	140	130	3.3	500	9

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and Detector

Optical Sensors

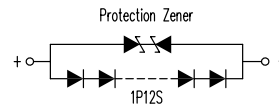
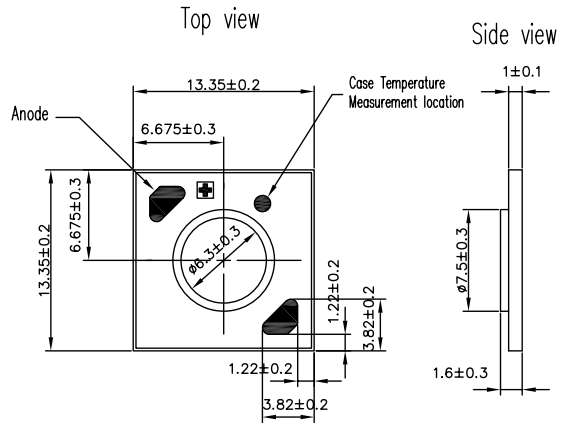
Photocoupler

UV LED

Ceramic COB



13.35 x 13.35 x 1.6 mm



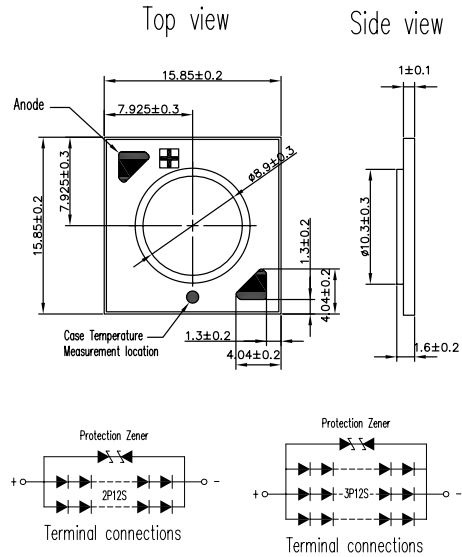
Terminal connections

Part No.	Correlated color temperature (K)	CRI Ra min.	LES (mm)	Min. Luminous Flux Φ_v (lm)	Max. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ ($^{\circ}C/W$)
LTPL-M13706ZS27-T0	2700	80	6.3	395	580	120	35.7	100	4.00
LTPL-M13710ZS27-T0	2700	80	6.3	730	1070	120	35.7	200	2.50
LTPL-M13712ZS27-T0	2700	80	6.3	730	1070	120	35.7	200	2.50
LTPL-M13706ZS30-T0	3000	80	6.3	395	580	120	35.7	100	4.00
LTPL-M13710ZS30-T0	3000	80	6.3	730	1070	120	35.7	200	2.50
LTPL-M13712ZS30-T0	3000	80	6.3	790	1140	120	35.7	200	2.50
LTPL-M13706ZS40-T0	4000	80	6.3	425	625	120	35.7	100	4.00
LTPL-M13710ZS40-T0	4000	80	6.3	790	850	120	35.7	200	2.50
LTPL-M13712ZS40-T0	4000	80	6.3	790	1155	120	35.7	200	2.50
LTPL-M13706ZS50-F1	5000	80	6.3	425	625	120	35.7	100	4.00
LTPL-M13710ZS50-F1	5000	80	6.3	790	850	120	35.7	200	2.50
LTPL-M13712ZS50-F1	5000	80	6.3	190	1155	120	35.7	200	2.50

Ceramic COB



15.85 x 15.85 x 1.6 mm

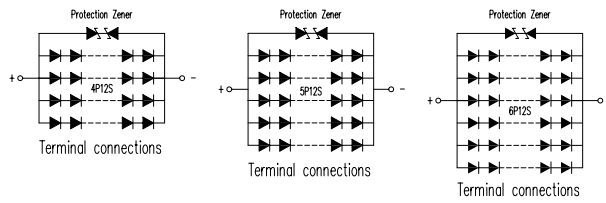
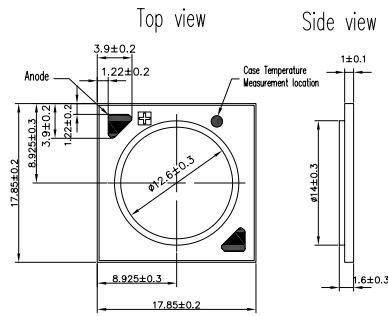


Part No.	Correlated color temperature (K)	CRI Ra min.	LES (mm)	Min. Luminous Flux Φ_v (lm)	Max. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th(j-s)}$ ($^{\circ}C/W$)
LTPL-M03614ZS27-T0	2700	80	8.9	1345	1975	120	36.9	350	1.70
LTPL-M03622ZS30-T0	2700	80	8.9	1975	2890	120	36.9	500	1.20
LTPL-M03614ZS30-T0	3000	80	8.9	1345	1975	120	36.9	350	1.70
LTPL-M03622ZS30-T0	3000	80	8.9	1975	2890	120	36.9	500	1.20
LTPL-M03614ZS40-T0	4000	80	8.9	1455	2130	120	36.9	350	1.70
LTPL-M03622ZS30-T0	4000	80	8.9	2130	3120	120	36.9	500	1.20

Ceramic COB



17.85 x 17.85 x 1.6 mm

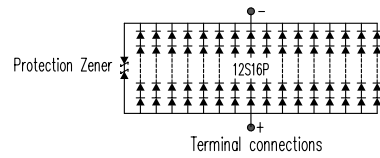
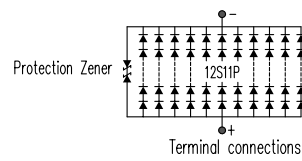
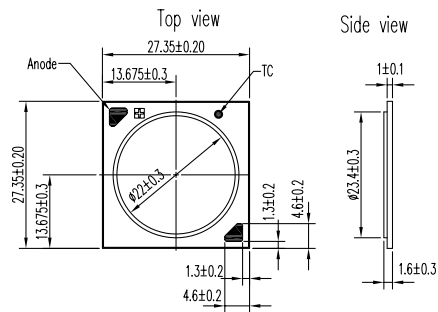


Part No.	Correlated color temperature (K)	CRI Ra min.	LES (mm)	Min. Luminous Flux Φ_v (lm)	Max. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th}(j-s)$ ($^{\circ}C/W$)
LTPL-M09825ZS30-T0	3000	80	12.6	2890	3925	120	37.1	700	1.24
LTPL-M09825QS30-T0	3000	90	12.6	2300	3120	120	37.1	700	1.24
LTPL-M09830ZS30-T0	3000	80	12.6	3370	4940	120	36.1	800	0.76
LTPL-M09830QS30-T0	3000	90	12.6	2890	3925	120	36.1	800	0.76
LTPL-M09825ZS40-T0	4000	80	12.6	2890	3925	120	37.1	700	1.24
LTPL-M09830ZS40-T0	4000	80	12.6	3370	4940	120	36.1	800	0.76
LTPL-M09825ZS50-F1	5000	80	12.6	3120	4204	120	37.1	700	1.24
LTPL-M09830ZS50-F1	5000	80	12.6	3640	5330	120	36.1	800	0.76

Ceramic COB



27.35 x 27.35 x 1.6 mm



Part No.	Correlated color temperature (K)	CRI Ra min.	LES (mm)	Min. Luminous Flux Φv (lm)	Max. Luminous Flux Φv (lm)	View Angle 2θ _{1/2}	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)	Thermal Resistance R _{th(j-s)} (°C/W)
LTPL-M07452ZS30-T0	3000	80	22	6210	9100	120	35.9	1400	0.32
LTPL-M07480ZS30-T0	3000	80	22	8430	12350	120	35.9	2050	0.24
LTPL-M07452ZS57-T0	5700	80	22	6700	9820	120	35.9	1400	0.32
LTPL-M07480ZS57-T0	5700	80	22	9100	13330	120	35.9	2050	0.24
LTPL-M07452ZS65-T0	6500	80	22	6700	9820	120	35.9	1400	0.32
LTPL-M07480ZS65-T0	6500	80	22	9100	13330	120	35.9	2050	0.24

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

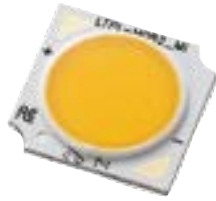
Infrared Emitter and Detector

Optical Sensors

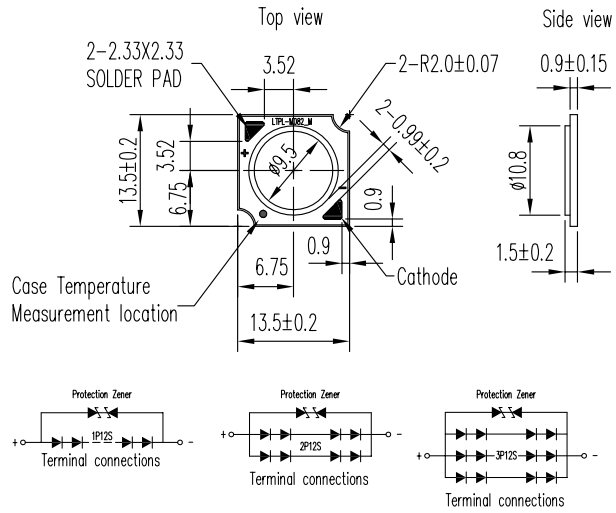
Photocoupler

UV LED

MCPCB COB



17.85 x 17.85 x 1.6 mm

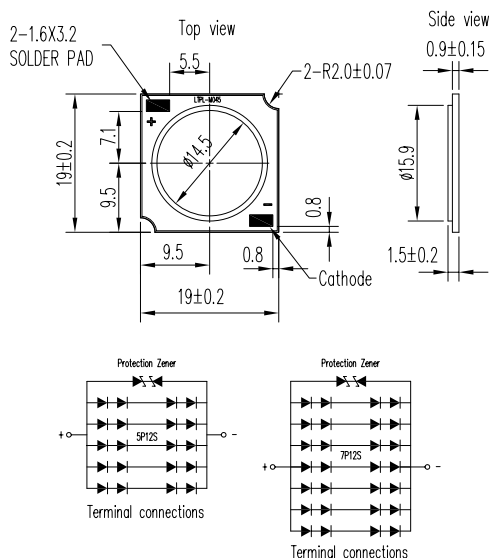


Part No.	Correlated color temperature (K)	CRI Ra min.	LES (mm)	Min. Luminous Flux Φv (lm)	Max. Luminous Flux Φv (lm)	View Angle 2θ _{1/2}	Typ. Forward Voltage V _F (V)	Forward Current I _F (mA)	Thermal Resistance R _{th(j-s)} (°C/W)
LTPL-M08206ZS27-T0	2700	80	9.5	535	730	120	36.5	120	2.04
LTPL-M08210ZS27-T0	2700	80	9.5	990	1345	120	36.5	240	1.20
LTPL-M08218ZS27-T0	2700	80	9.5	1455	1975	120	36.5	360	0.90
LTPL-M08206ZS30-T0	3000	80	9.5	535	730	120	36.5	120	2.04
LTPL-M08206QS30-T0	3000	90	9.5	460	625	120	36.5	120	2.04
LTPL-M08210ZS30-T0	3000	80	9.5	990	1345	120	36.5	240	1.20
LTPL-M08210QS30-T0	3000	90	9.5	850	1155	120	36.5	240	1.20
LTPL-M08218ZS30-T0	3000	80	9.5	1570	2130	120	36.5	360	0.90
LTPL-M08218QS30-T0	3000	90	9.5	1245	1695	120	36.5	360	0.90
LTPL-M08206ZS40-T0	4000	80	9.5	580	790	120	36.5	120	2.04
LTPL-M08210ZS40-T0	4000	80	9.5	1070	1455	120	36.5	240	1.20
LTPL-M08218ZS40-T0	4000	80	9.5	1570	2130	120	36.5	360	0.90

MCPCB COB



19 x 19 x 1.5 mm

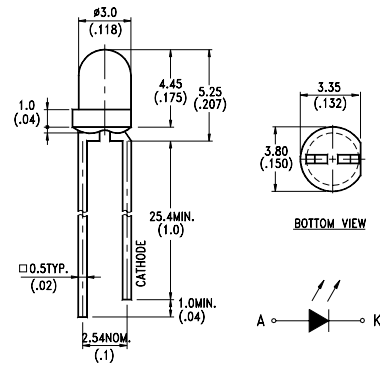


Part No.	Correlated color temperature (K)	CRI Ra min.	LES (mm)	Min. Luminous Flux Φ_v (lm)	Max. Luminous Flux Φ_v (lm)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)	Thermal Resistance $R_{th(j-s)}$ ($^{\circ}C/W$)
LTPL-M04520ZS27-T0	2700	80	14.5	2300	3120	120	35.5	480	0.44
LTPL-M04530ZS27-T0	2700	80	14.5	3370	4575	120	35.8	720	0.37
LTPL-M04520ZS30-T0	3000	80	14.5	2485	3370	120	35.5	480	0.44
LTPL-M04520QS30-T0	3000	90	14.5	1830	2485	120	35.5	480	0.44
LTPL-M04530ZS30-T0	3000	80	14.5	3640	4940	120	35.8	720	0.37
LTPL-M04530QS30-T0	3000	90	14.5	2980	3925	120	35.8	720	0.37
LTPL-M04520ZS40-T0	4000	80	14.5	2485	3370	120	35.5	480	0.44
LTPL-M04530ZS40-T0	4000	80	14.5	3640	4940	120	35.8	720	0.37



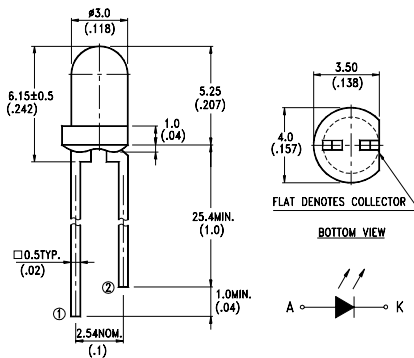
Infrared Emitter and Detector

IR Emitter_3mm Through Hole Type



Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)
LTE-1650	940	Water Clear	60	3.4 @ $I_f=20mA$	1.2@ $I_f=50mA$
LTE-18G3N	940	Water Clear	20	18.0 @ $I_f=20mA$	1.5 @ $I_f=20mA$

IR Emitter_3mm Through Hole Type

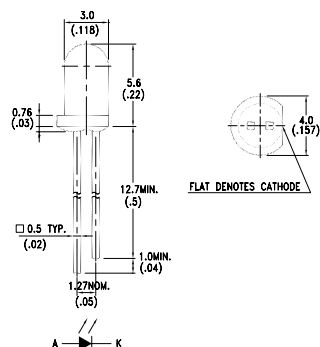


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)
LTE-4206	940	Water Clear	20	5.3 @ $I_f=20mA$	1.2 @ $I_f=20mA$
LTE-4206C	940	Smoke	20	5.3 @ $I_f=20mA$	1.2 @ $I_f=20mA$
LTE-4209	850	Water Clear	25	33 @ $I_f=50mA$	1.5 @ $I_f=50mA$
LTE-16K3L	940	Water Clear	55	7.4 @ $I_f=20mA$	1.5 @ $I_f=20mA$

IR Emitter_3mm Through Hole Type



T1 Top View, 3mm

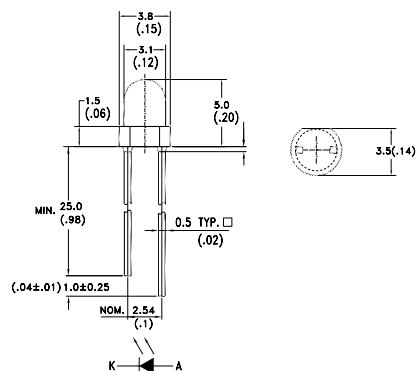


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)	Forward Current I_f (mA)
LTE-209	940	Water Clear	16	1.4	1.2	20

IR Emitter_3mm Through Hole Type



T1 Top View, 3mm

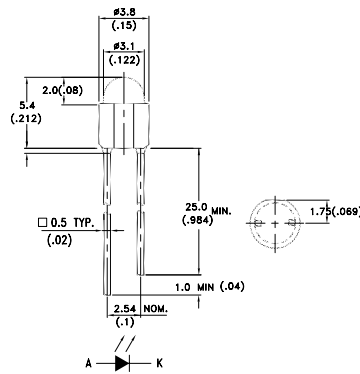


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)	Forward Current I_f (mA)
LTE-14H0B	850	Black	40	36.0	1.6	50

IR Emitter_3mm Through Hole Type



T1 Top View, 3mm

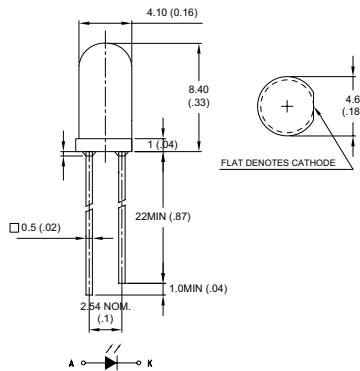


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)	Forward Current I_f (mA)
LTE-16H0B	850	Black	60	26.0	1.6	50

IR Emitter_3mm Through Hole Type



T1 Top View, 3mm



Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)	Forward Current I_f (mA)
LTE-18H0B	850	Black	50	30.0	1.6	50

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and Detector

Optical Sensors

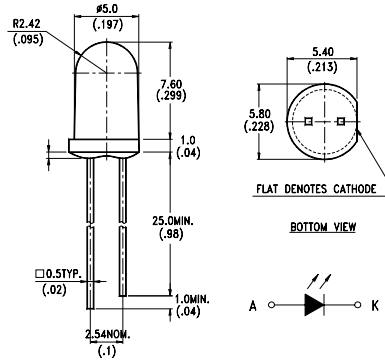
Photocoupler

UV LED

IR Emitter_5mm Through Hole Type



T1 3/4 Top View, 5mm

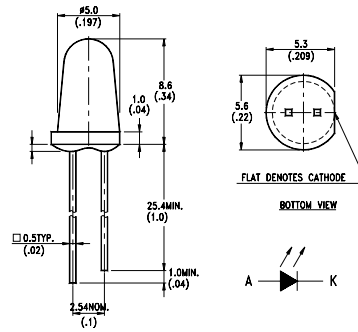


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)
LTE-3279K	940	Light Blue	60	50.0 @ $I_f=100$ mA	1.4 @ $I_f=100$ mA
LTE-3271B	940	Water Clear	50	9.0 @ $I_f=20$ mA	1.3 @ $I_f=50$ mA
LTE-3271BL	940	Blue	50	9.0 @ $I_f=20$ mA	1.3 @ $I_f=50$ mA
LTE-3371T	940	Water Clear	40	10.5 @ $I_f=20$ mA	1.3 @ $I_f=50$ mA
LTE-5228A	940	Water Clear	40	10.5 @ $I_f=20$ mA	1.2 @ $I_f=20$ mA
LTE-3223L	940	Water Clear	30	15.0 @ $I_f=20$ mA	1.3 @ $I_f=50$ mA
LTE-3273L	940	Water Clear	40	8.0 @ $I_f=20$ mA	1.3 @ $I_f=50$ mA
LTE-3273DL	940	Blue	45	8.0 @ $I_f=20$ mA	1.3 @ $I_f=50$ mA
LTE-32B3L	940	Water Clear	50	8.5 @ $I_f=20$ mA	1.2 @ $I_f=20$ mA
LTE-4208	940	Water Clear	20	22.2 @ $I_f=20$ mA	1.2 @ $I_f=20$ mA
LTE-4238R	880	Water Clear	20	10.5 @ $I_f=20$ mA	1.3 @ $I_f=20$ mA
LTE-3677	875	Water Clear	30	38.0 @ $I_f=50$ mA	1.5 @ $I_f=50$ mA
LTE-3276	850	Water Clear	50	32.0 @ $I_f=50$ mA	1.5 @ $I_f=50$ mA
LTE-3376	850	Water Clear	30	45.0 @ $I_f=50$ mA	1.6 @ $I_f=50$ mA
LTE-3226	850	Water Clear	25	65.0 @ $I_f=50$ mA	1.6 @ $I_f=50$ mA
LTE-3372	850	Water Clear	20	108.0 @ $I_f=50$ mA	1.6 @ $I_f=50$ mA
LTE-3220L	850	Water Clear	30	60.0 @ $I_f=50$ mA	1.5 @ $I_f=50$ mA
LTE-3070L	850	Water Clear	45	22.5 @ $I_f=50$ mA	1.5 @ $I_f=50$ mA
LTE-3370L	850	Water Clear	20	80.0 @ $I_f=50$ mA	1.6 @ $I_f=50$ mA
LTE-32B0L	850	Water Clear	40	22.0 @ $I_f=20$ mA	1.5 @ $I_f=50$ mA
LTE-32F0L	850	Water Clear	60	28.0 @ $I_f=50$ mA	1.5 @ $I_f=50$ mA
LTE-7F70L	850	Water Clear	95	10.0 @ $I_f=50$ mA	1.6 @ $I_f=100$ mA

IR Emitter_5mm Through Hole Type



T1 3/4 Top View, 5mm

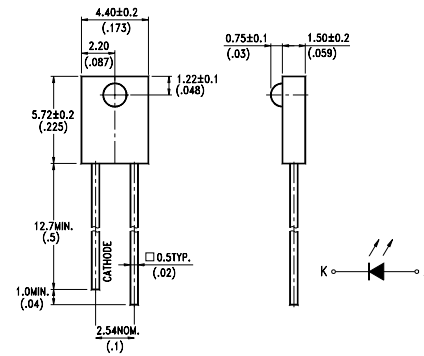


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-2872U	940	Water Clear	16	12.0	1.2	20

IR Emitter_Side Look



5.72 x 4.40 x 2.25 mm

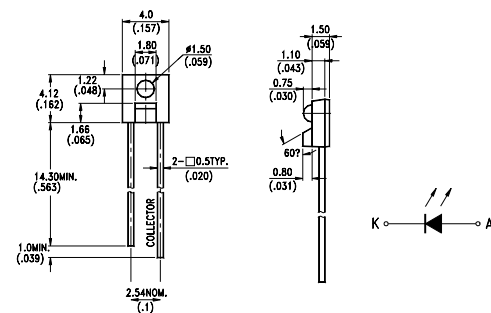


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-302	940	Water Clear	40	1.4	1.2	20

IR Emitter_Side Look

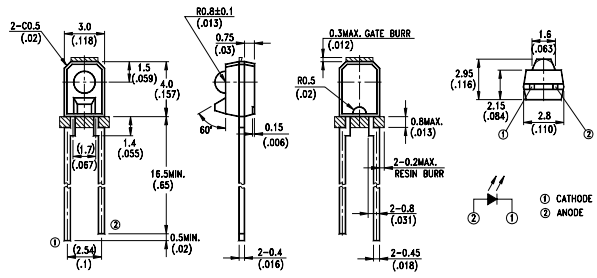


4.12 x 4.00 x 2.25 mm



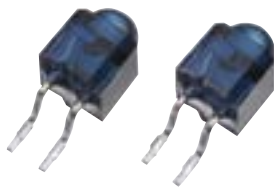
Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-309	940	Water Clear	40	1.4	1.2	20

IR Emitter_Side Look

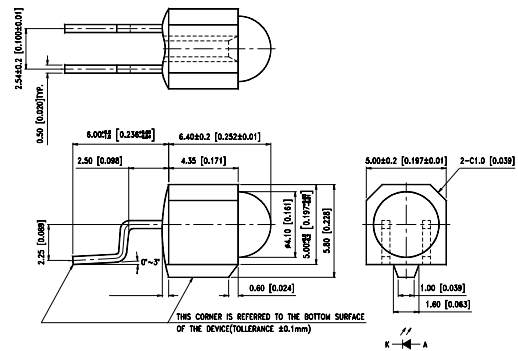


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)
LTE-306	940	Water Clear	30	1.5 @ $I_f=20$ mA	1.2 @ $I_f=20$ mA
LTE-304	850	Water Clear	30	3.0 @ $I_f=20$ mA	1.6 @ $I_f=50$ mA

IR Emitter_SMD Side View

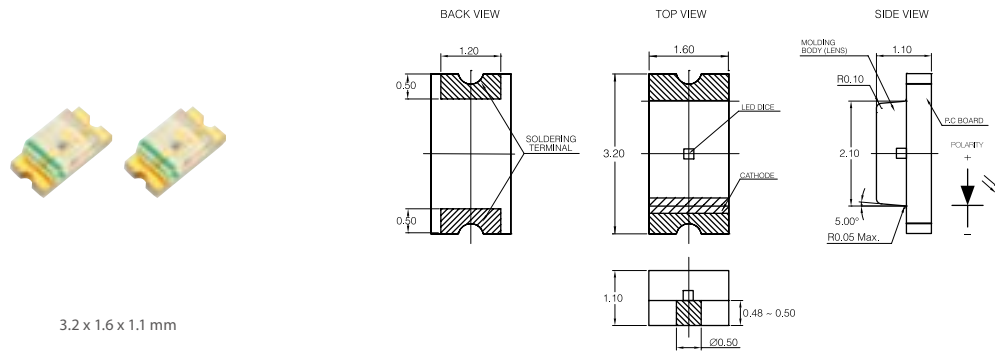


6.40 x 5.80 x 5.00 mm



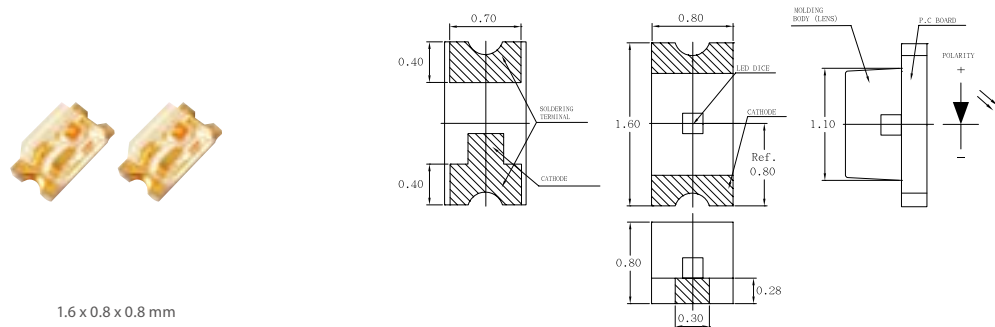
Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)
LTE-7377L	880	Blue	16	35.0 @ $I_f=50$ mA	1.8 @ $I_f=350$ mA

IR Emitter_SMD Type



Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)	Forward Current I_f (mA)
LTE-C1501	940	Clear	130	0.8	1.2	20
LTE-C1506	850	Clear	130	1.0	1.4	20

IR Emitter_SMD Type



Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)	Forward Current I_f (mA)
LTE-C1901-ZF	940	Clear	150	0.8	1.2	20
LTE-C1906R-14	850	Clear	130	2.0	1.6	20

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and
Detector

Optical Sensors

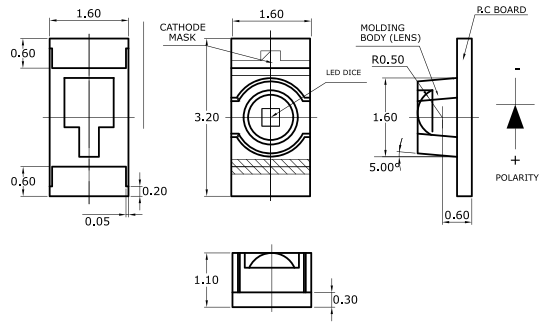
Photocoupler

UV LED

IR Emitter_SMD Type



3.2 x 1.6 x 1.1 mm

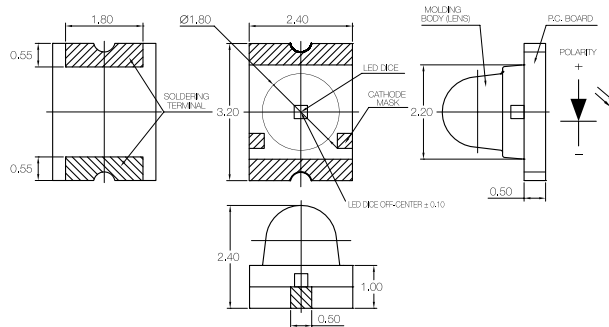


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)	Forward Current I_f (mA)
LTE-C211-X	940	Clear	115	1.8	1.2	20
LTE-C216-P	850	Clear	75	4.0	1.4	20
LTE-C216R-14	850	Clear	75	4.0	1.4	20

IR Emitter_SMD Type

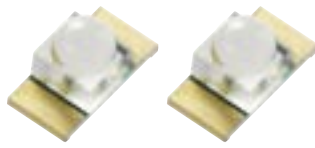


3.2 x 2.4 x 2.4 mm

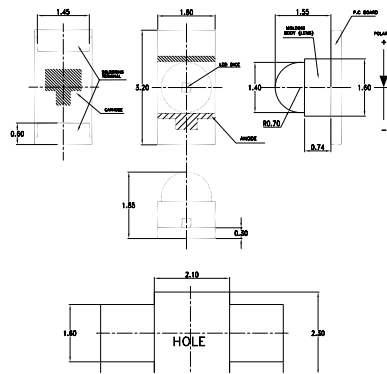


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)	Forward Current I_f (mA)
LTE-C9301	940	Clear	25	2.9	1.2	20
LTE-C9306	850	Clear	20	4.0	1.5	20
LTE-C9306R-14	850	Clear	20	10.0	1.4	20

IR Emitter_SMD Type



3.2 x 1.6 x 1.85 mm

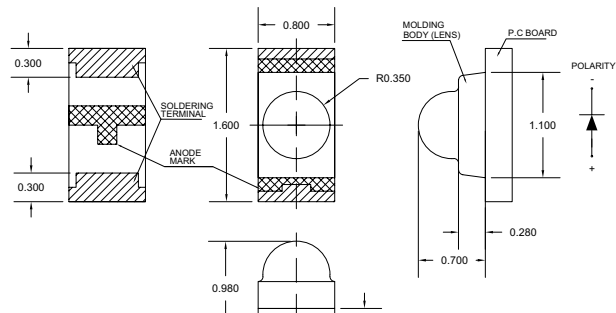


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)	Forward Current I_f (mA)
LTE-C9501-E-T	940	Clear	20	4.0	1.2	20
LTE-C9506B	850	Black	20	20.0	1.4	20

IR Emitter_SMD Type



1.6 x 0.8 x 0.98 mm



Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)	Forward Current I_f (mA)
LTE-C9901	940	Clear	65	8.0	1.4	20

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and
Detector

Optical Sensors

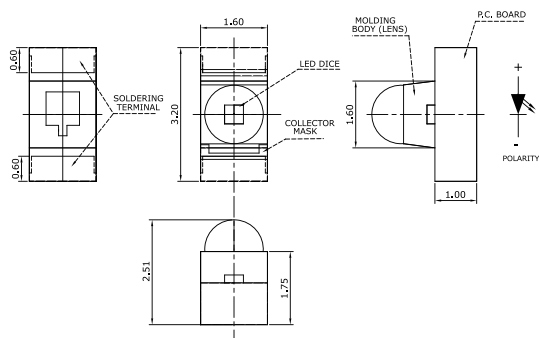
Photocoupler

UV LED

IR Emitter_SMD Type



3.2 x 2.5 x 1.6 mm

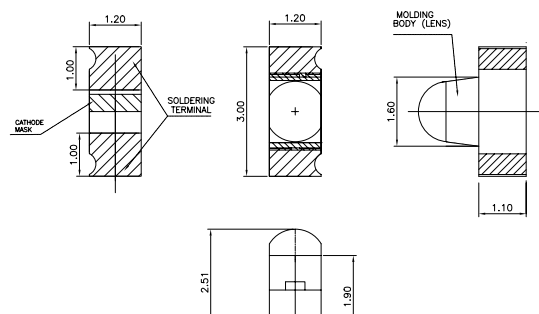


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-S9511-E	940	Clear	25	6.0	1.2	20

IR Emitter_SMD Type



3.2 x 2.5 x 1.2 mm

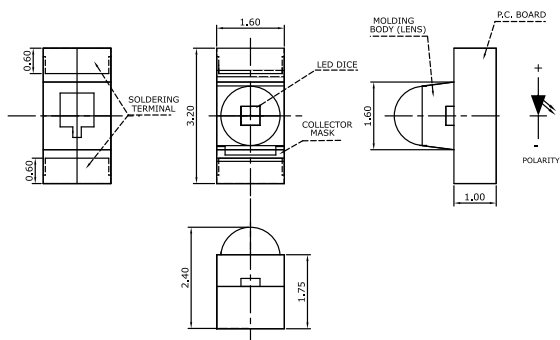


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-S9511TS	940	Clear	18	20	1.3	20

IR Emitter_SMD Type

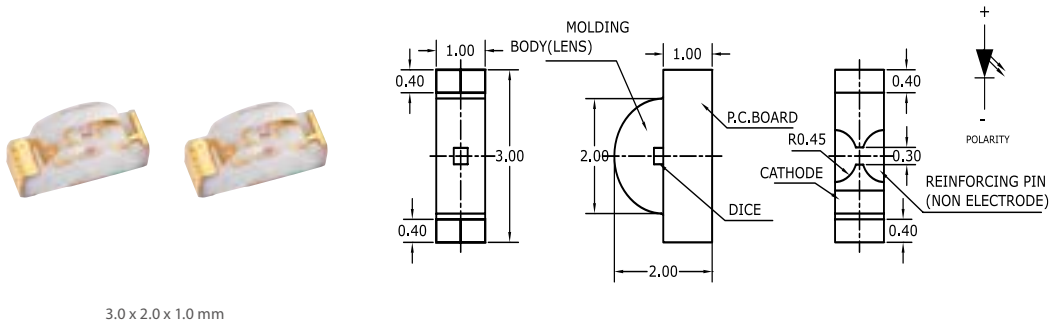


3.2 x 2.4 x 1.6 mm



Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_F (V)	Forward Current I_F (mA)
LTE-S9711-J	940	Clear	45	3.0	1.2	20

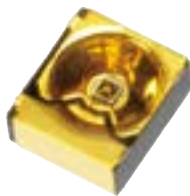
IR Emitter_SMD Type



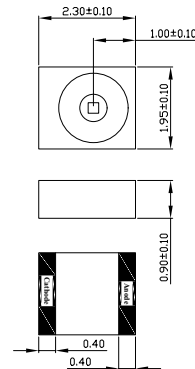
3.0 x 2.0 x 1.0 mm

Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)	Forward Current I_f (mA)
LTE-S3201	940	Clear	130	0.5	1.2	20
LTE-S3206	850	Clear	130	1.9	1.4	20

IR Emitter_SMD Bowl Type



2.30 x 1.95 x 0.90 mm



Part No.	λ_p (nm)	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)	Max. Continuous Forward Current (mA)
LTE-C269	940	30	35-114 @ $I_f=100$ mA	1.4 @ $I_f=100$ mA	100
LTE-C249	855	30	20-114 @ $I_f=100$ mA	1.6 @ $I_f=100$ mA	100

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

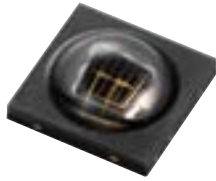
Infrared Emitter and Detector

Optical Sensors

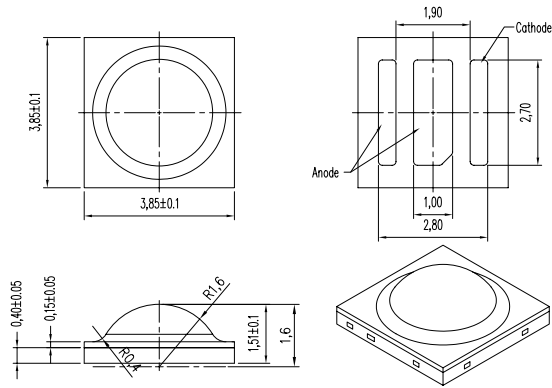
Photocoupler

UV LED

IR Emitter_High Power SMD



3.85 x 3.85 x 1.51 mm

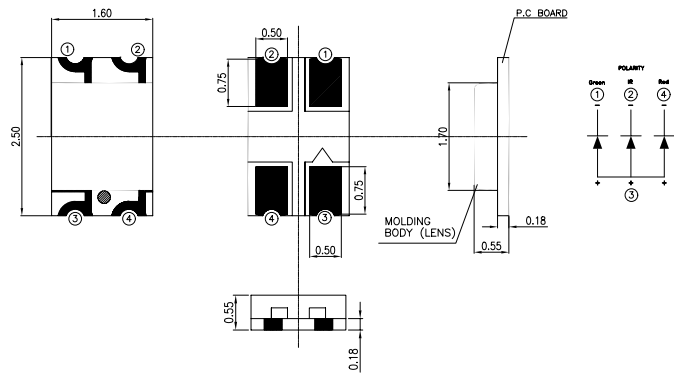


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)
LTE-R38381-S	940	Clear	90	300.0 @ $I_f=1000$ mA	1.8 @ $I_f=1000$ mA
LTE-R38831S-S	940	Clear	90	550.0 @ $I_f=1000$ mA	3.0 @ $I_f=1000$ mA
LTE-R38386-SE8	850	Clear	90	200.0 @ $I_f=700$ mA	1.7 @ $I_f=350$ mA
LTE-R38386-ZFE8	850	Clear	150	120.0 @ $I_f=700$ mA	1.7 @ $I_f=350$ mA
LTE-R38386-S	850	Clear	90	300.0 @ $I_f=1000$ mA	1.8 @ $I_f=1000$ mA
LTE-R38386-ZF	850	Clear	150	150.0 @ $I_f=1000$ mA	1.8 @ $I_f=1000$ mA
LTE-R38386S-S	850	Clear	90	550.0 @ $I_f=1000$ mA	3.0 @ $I_f=1000$ mA
LTE-R38386S-ZF	850	Clear	150	225.0 @ $I_f=1000$ mA	3.0 @ $I_f=1000$ mA
LTE-R38389S-S	810	Clear	90	500.0 @ $I_f=1000$ mA	3.3 @ $I_f=1000$ mA

IR Emitter_SMD Type



2.5 x 1.6 x 0.55 mm

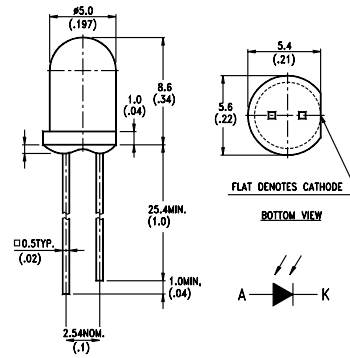


Part No.	λ_p (nm)	Lens Color	Viewing Angle $2\theta_{1/2}$	Typ.Radiation Intensity I_e (mW/sr)	Typ.Forward Voltage V_f (V)	Forward Current I_f (mA)
LTE-C195IRG	940	Clear	130	2.0	1.4	20
	660			3.0	2.1	20
	525			2.5	2.9	20

Photodiode_5mm Through Hole Type



T1 3/4 Top View, 5mm

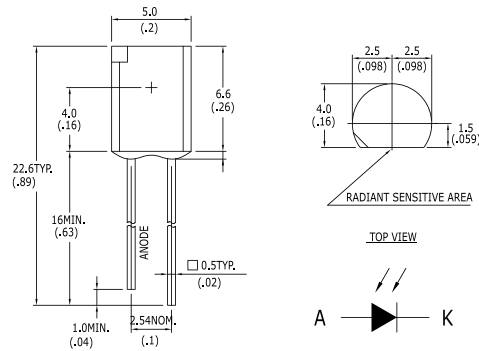


Part No.	Lens Color	Visible Light Fiber	Typ. Short Circuit Current I_s (μA) @ $V_R=5\text{V}$; $E_e=0.1\text{mW}/\text{cm}^2$; $\lambda=940\text{nm}$	Max. Reverse Dark Current Voltage $I_{D(R)}$ (nA) @ $V_R=10\text{V}$; $E_e=0\text{mW}/\text{cm}^2$	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @ $I_R=100\mu\text{A}$; $E_e=0\text{mW}/\text{cm}^2$
LTR-323DB	Dark	Yes	13	30	30

Photodiode_Side Look

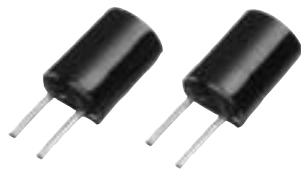


6.6 x 5.0 x 4.0 mm

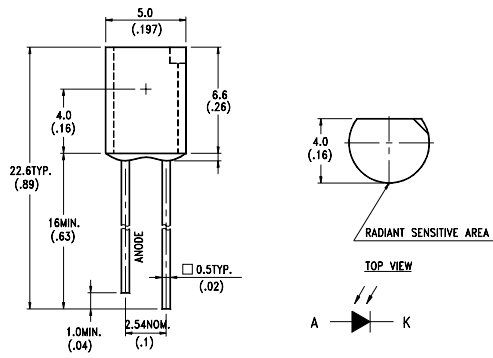


Part No.	Lens Color	Visible Light Fiber	Typ. Short Circuit Current I_s (μA) @ $V_R=5\text{V}$; $E_e=0.1\text{mW}/\text{cm}^2$; $\lambda=940\text{nm}$	Max. Reverse Dark Current Voltage $I_{D(R)}$ (nA) @ $V_R=10\text{V}$; $E_e=0\text{mW}/\text{cm}^2$	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @ $I_R=100\mu\text{A}$; $E_e=0\text{mW}/\text{cm}^2$
LTR-526AD	Dark	Yes	2	30	30

Photodiode_Side Look



6.6 x 5.0 x 4.0 mm

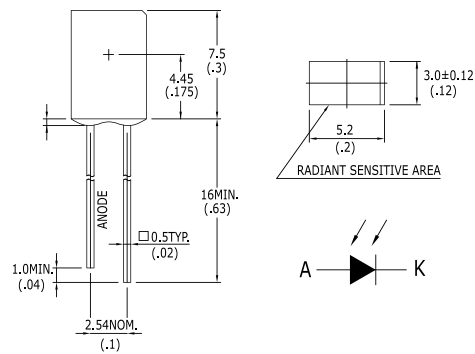


Part No.	Lens Color	Visible Light Fiber	Typ. Short Circuit Current I_s (μA) @ $V_R=5\text{V}$; $E_e=0.1\text{mW}/\text{cm}^2$; $\lambda=940\text{nm}$	Max. Reverse Dark Current Voltage $I_{D(R)}$ (nA) @ $V_R=10\text{V}$; $E_e=0\text{mW}/\text{cm}^2$	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @ $I_R=100\mu\text{A}$; $E_e=0\text{mW}/\text{cm}^2$
LTR-516AB	Dark	Yes	2	30	30
LTR-516AD	Dark	Yes	2	30	30

Photodiode_Side Look



7.5 x 5.2 x 3.0 mm

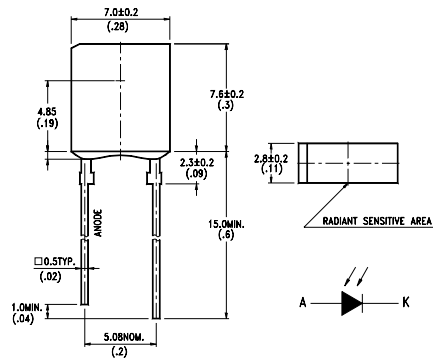


Part No.	Lens Color	Visible Light Fiber	Typ. Short Circuit Current I_s (μA) @ $V_R=5\text{V}$; $E_e=0.1\text{mW}/\text{cm}^2$; $\lambda=940\text{nm}$	Max. Reverse Dark Current Voltage $I_{D(R)}$ (nA) @ $V_R=10\text{V}$; $E_e=0\text{mW}/\text{cm}^2$	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @ $I_R=100\mu\text{A}$; $E_e=0\text{mW}/\text{cm}^2$
LTR-536AD	Dark	Yes	2	30	30

Photodiode_Side Look

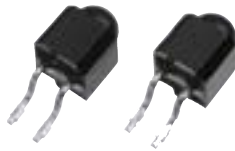


7.6 x 7.0 x 2.8 mm

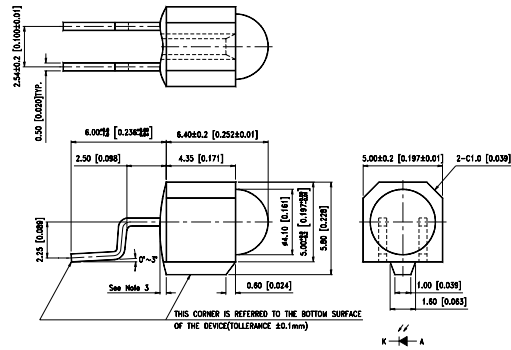


Part No.	Lens Color	Visible Light Fiber	Typ. Short Circuit Current I_s (μ A) @ $V_R=5V$; $E_e=0.1mW/cm^2$; $\lambda=940nm$	Max. Reverse Dark Current Voltage $ID_{(R)}$ (nA) @ $V_R=10V$; $E_e=0mW/cm^2$	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @ $I_R=100\mu A$; $E_e=0mW/cm^2$
LTR-546AB	Dark	Yes	2	30	30
LTR-546AD	Dark	Yes	2	30	30

Photodiode_SMD Side Look

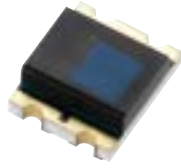


6.4 x 5.0 x 5.80 mm

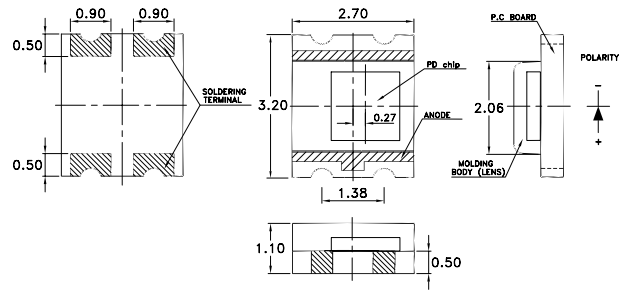


Part No.	Lens Color	Visible Light Fiber	Typ. Short Circuit Current I_s (μ A) @ $V_R=5V$; $E_e=0.1mW/cm^2$; $\lambda=940nm$	Max. Reverse Dark Current Voltage $ID_{(R)}$ (nA) @ $V_R=10V$; $E_e=0mW/cm^2$	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @ $I_R=100\mu A$; $E_e=0mW/cm^2$
LTR-733DBM1-TA	Dark	Yes	7	30	30

Photodiode_SMD Type

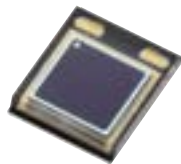


3.2 x 2.7 x 1.1 mm

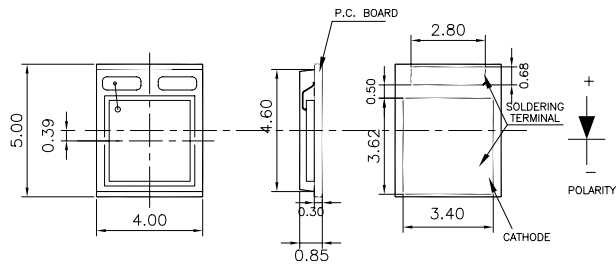


Part No.	Lens Color	Visable Light Fiber	Typ. Short Circuit Current I_s (μA) @ $V_R=5\text{V}$; $E_e=0.5\text{mW}/\text{cm}^2$; $\lambda=940\text{nm}$	Max. Reverse Dark Current Voltage $I_{D(R)}$ (nA) @ $V_R=10\text{V}$; $E_e=0\text{mW}/\text{cm}^2$	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @ $I_s=100\mu\text{A}$; $E_e=0\text{mW}/\text{cm}^2$
LTR-C155-DC	Clear	No	10	10	33
LTR-C155-DB	Dark	Yes	10	10	33

Photodiode_SMD Type



5.0 x 4.0 x 0.85 mm

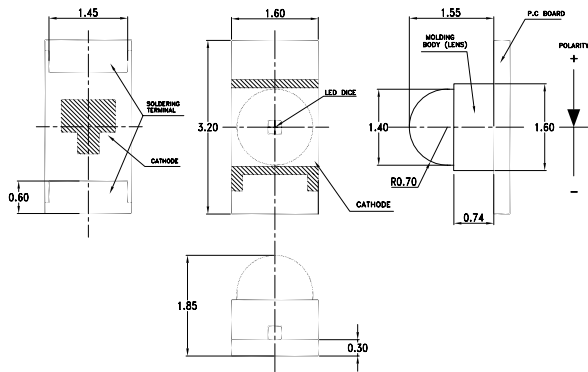


Part No.	Lens Color	Visable Light Fiber	Typ. Short Circuit Current I_s (μA) @ $V_R=5\text{V}$; $E_e=0.5\text{mW}/\text{cm}^2$; $\lambda=940\text{nm}$	Max. Reverse Dark Current Voltage $I_{D(R)}$ (nA) @ $V_R=10\text{V}$; $E_e=0\text{mW}/\text{cm}^2$	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @ $I_s=100\mu\text{A}$; $E_e=0\text{mW}/\text{cm}^2$
LTR-C5510-DC	Clear	No	940nm : 40	10	33
			660nm : 35		
			525nm : 30		
LTR-C5511-DB	Black	Yes	40	10	33

Photodiode_SMD Type

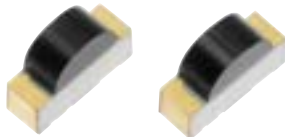


3.2 x 1.6 x 1.85 mm

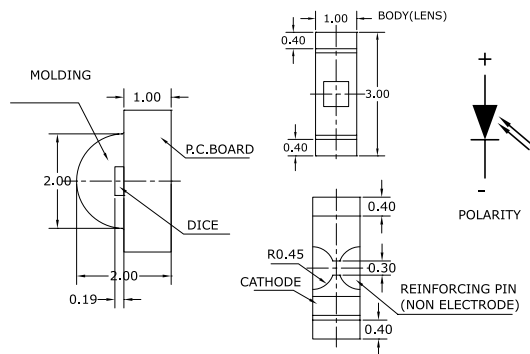


Part No.	Lens Color	Visible Light Fiber	Typ. Short Circuit Current I_s (μA)@ $V_R=5\text{V}$; $E_e=0.5\text{mW}/\text{cm}^2$; $\lambda=940\text{nm}$	Max. Reverse Dark Current Voltage $I_{D(R)}$ (nA) @ $V_R=10\text{V}$; $E_e = 0\text{mW}/\text{cm}^2$	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @ $I_s=100\mu\text{A}$ $E_e = 0\text{mW}/\text{cm}^2$
LTR-C950-DB	Black	Yes	3	10	33

Photodiode_SMD Type



3.0 x 2.0 x 1.0 mm



Part No.	Lens Color	Visible Light Fiber	Typ. Short Circuit Current I_s (μA)@ $V_R=5\text{V}$; $E_e=0.5\text{mW}/\text{cm}^2$; $\lambda=940\text{nm}$	Max. Reverse Dark Current Voltage $I_{D(R)}$ (nA) @ $V_R=10\text{V}$; $E_e = 0\text{mW}/\text{cm}^2$	Min. Reverse Break Down Voltage $V_{(BR)R}$ (V) @ $I_s=100\mu\text{A}$ $E_e = 0\text{mW}/\text{cm}^2$
LTR-S320-DB-L	Dark	Yes	1.8	10	33

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and Detector

Optical Sensors

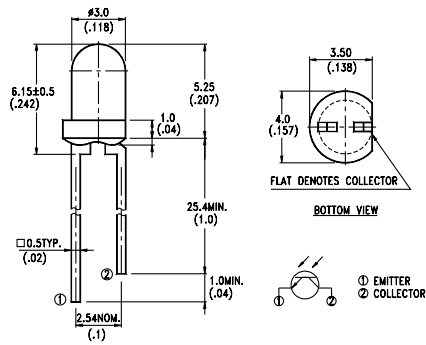
Photocoupler

UV LED

Phototransistors_3mm Through Hole Type



T1 Top View, 3mm

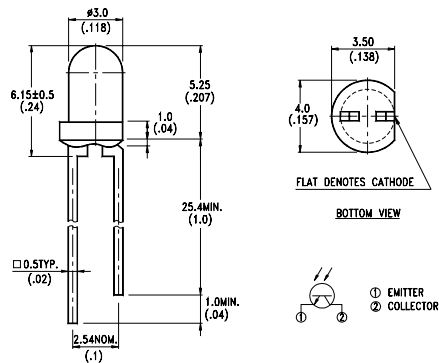


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=1mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=10V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_C=100\mu A$ $E_e=1mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_C=1mA$ $E_e=0mW/cm^2$
LTR-1650D	Dark	Yes	4	100	0.4	30

Phototransistors_3mm Through Hole Type



T1 Top View, 3mm

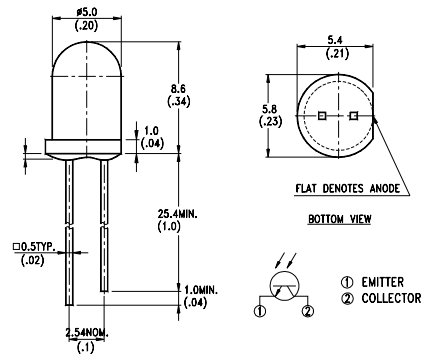


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=1mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=10V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_C=100\mu A$ $E_e=1mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_C=1mA$ $E_e=0mW/cm^2$
LTR-4206	Water Clear	No	4	100	0.4	30
LTR-4206E	Dark	Yes	4	100	0.4	30

Phototransistors_3mm Through Hole Type

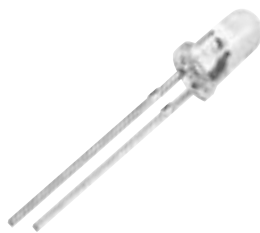


T1 Top View, 3mm

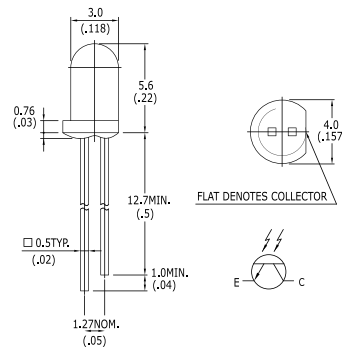


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=1mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=10V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_C=100\mu A$ $E_e=1mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_C=1mA$ $E_e=0mW/cm^2$
LTR-3208	Water Clear	No	8	100	0.4	30
LTR-3208E	Dark	Yes	8	100	0.4	30

Phototransistors_3mm Through Hole Type



T1 Top View, 3mm



Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=1mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=10V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_C=100\mu A$ $E_e=1mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_C=1mA$ $E_e=0mW/cm^2$
LTR-209	Water Clear	No	4	100	0.4	30
LTR-209H	Dark	Yes	4	100	0.4	30

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

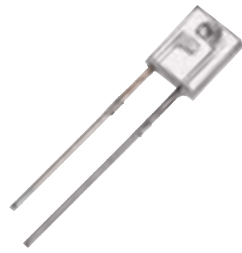
Infrared Emitter and Detector

Optical Sensors

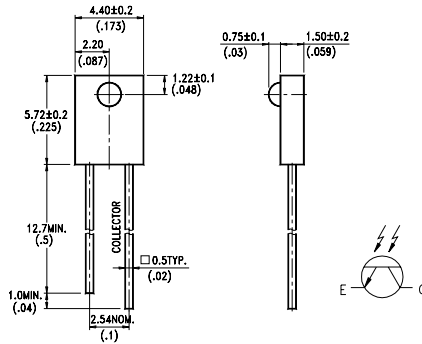
Photocoupler

UV LED

Phototransistors_Side Look



5.72 x 4.40 x 2.25 mm

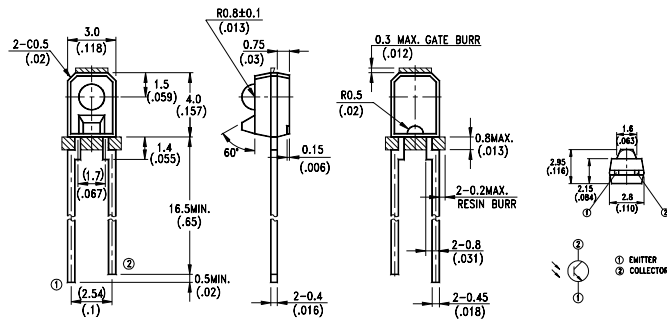


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=1mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=10V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_C=100\mu A$ $E_e=1mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_C=1mA$ $E_e=0mW/cm^2$
LTR-301	Water Clear	No	2	100	0.4	30

Phototransistors_Side Look



4.0 x 3.0 x 2.95 mm

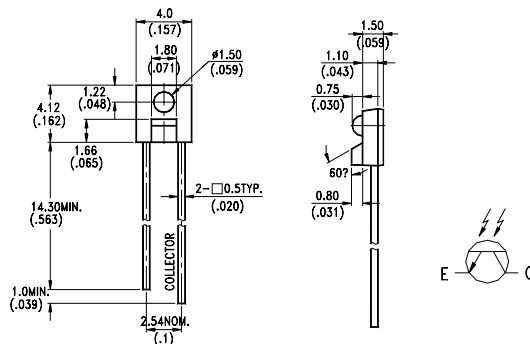


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=1mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=10V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_C=100\mu A$ $E_e=1mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_C=1mA$ $E_e=0mW/cm^2$
LTR-306	Red Clear	No	2	100	0.4	30

Phototransistors_Side Look

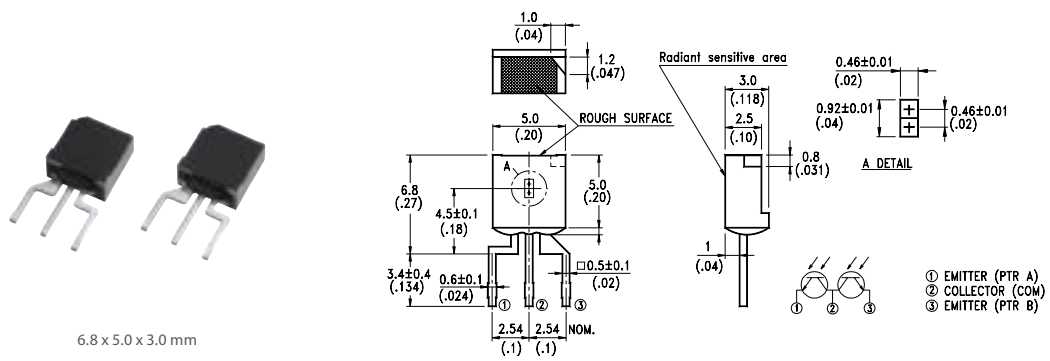


4.12 x 4.0 x 2.25 mm



Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=1mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=10V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_C=100\mu A$ $E_e=1mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_C=1mA$ $E_e=0mW/cm^2$
LTR-309	Water Clear	No	2	100	0.4	30

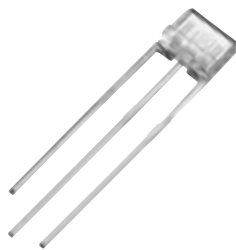
Phototransistors_Side Look



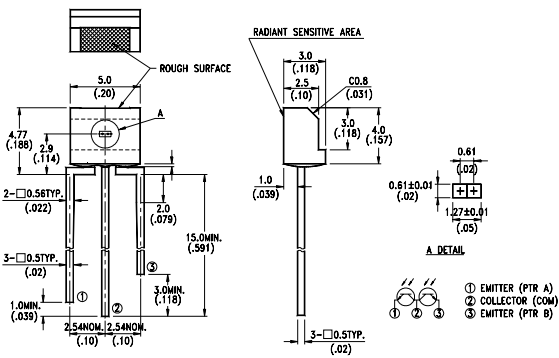
6.8 x 5.0 x 3.0 mm

Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=1mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=10V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_c=50\mu A$ $E_e=1mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_c=1mA$ $E_e=1mW/cm^2$
LTR-5579DP1	Dark	Yes	0.3	100	0.4	30

Phototransistors_Side Look



4.77 x 5.0 x 3.0 mm

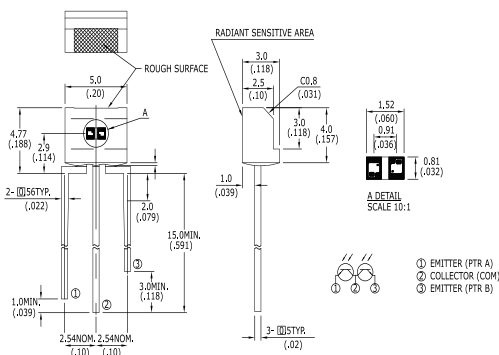


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=1mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=10V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_c=50\mu A$ $E_e=0.5mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_c=1mA$ $E_e=0mW/cm^2$
LTR-5986H	Water Clear	No	0.5	100	0.4	30

Phototransistors_Side Look

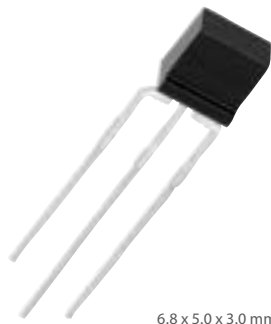


4.77 x 5.0 x 3.0 mm

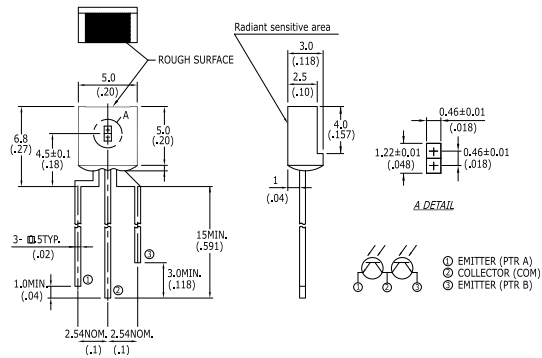


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=1mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=10V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_c=100\mu A$ $E_e=1mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_c=1mA$ $E_e=0mW/cm^2$
LTR-5888DH	Dark	Yes	0.49	100	0.4	30

Phototransistors_Side Look



6.8 x 5.0 x 3.0 mm

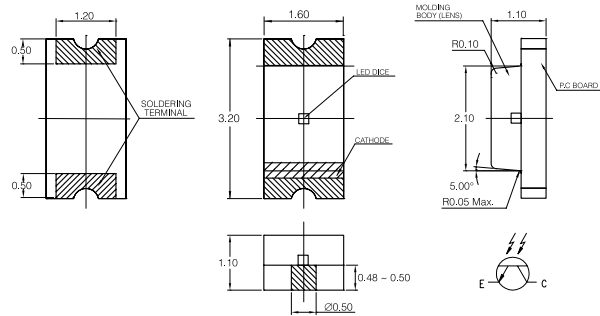


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=1mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=10V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_c=50\mu A$ $E_e=0.5mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_c=1mA$ $E_e=0mW/cm^2$
LTR-5576D	Dark	Yes	0.55	100	0.4	30

Phototransistors_SMD Type

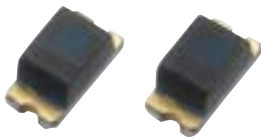


3.2 x 1.6 x 1.1 mm

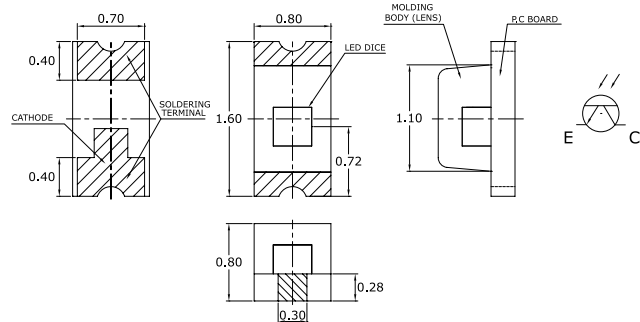


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=0.5mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=20V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_c=100\mu A$ $E_e=0.5mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_c=1mA$ $E_e=0mW/cm^2$
LTR-C1503	Clear	No	0.8	100	0.4	30

Phototransistors_SMD Type

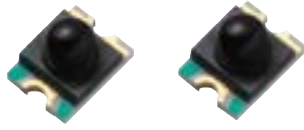


1.6 x 0.8 x 0.8 mm

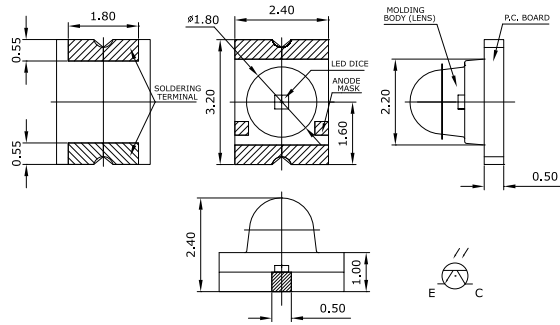


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{c(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=0.5mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=20V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_c=100\mu A$ $E_e=0.5mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_c=100\mu A$ $E_e=0mW/cm^2$
LTR-C1903	Clear	No	0.25	100	0.4	35

Phototransistors_SMD Type

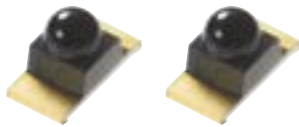


3.2 x 2.4 x 2.4 mm

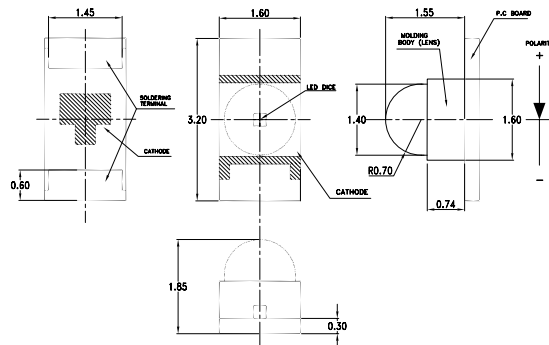


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=0.5mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=20V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_c=100\mu A$ $E_e=0.5mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_c=100\mu A$ $E_e=0mW/cm^2$
LTR-C9303B	Dark	Yes	2	100	0.4	30

Phototransistors_SMD Type



3.2 x 1.6 x 1.85 mm



Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=0.5mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=20V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_c=100\mu A$ $E_e=0.5mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEO}$ (V) @ $I_c=100\mu A$ $E_e=0mW/cm^2$
LTR-C950-TB-T	Dark	Yes	4.5	100	0.4	30

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

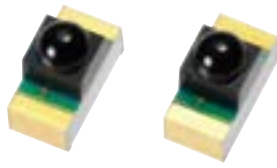
Infrared Emitter and Detector

Optical Sensors

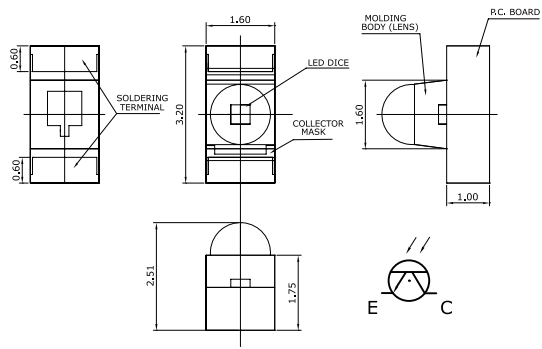
Photocoupler

UV LED

Phototransistors_SMD Type

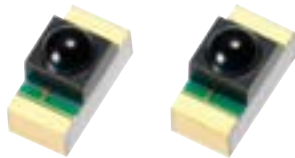


3.2 x 2.5 x 1.6 mm

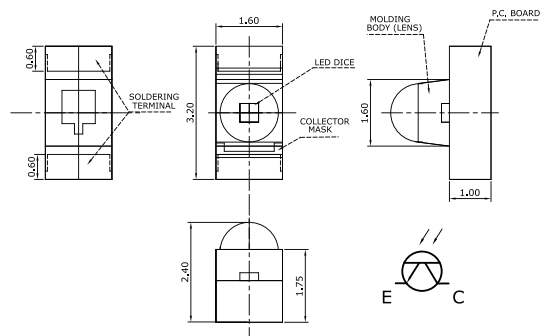


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=0.5mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=20V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_C=100\mu A$ $E_e=0.5mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEG}$ (V) @ $I_C=100\mu A$ $E_e=0mW/cm^2$
LTR-S951-TB	Dark	Yes	5	100	0.4	30

Phototransistors_SMD Type

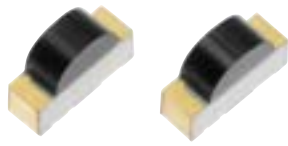


3.2 x 2.4 x 1.6 mm

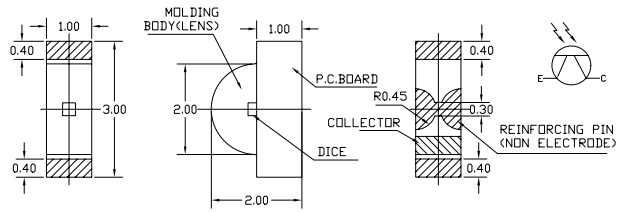


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=0.5mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=20V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_C=100\mu A$ $E_e=0.5mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEG}$ (V) @ $I_C=100\mu A$ $E_e=0mW/cm^2$
LTR-S971-TB	Dark	Yes	4	100	0.4	30

Phototransistors_SMD Type



3.0 x 2.0 x 1.0 mm

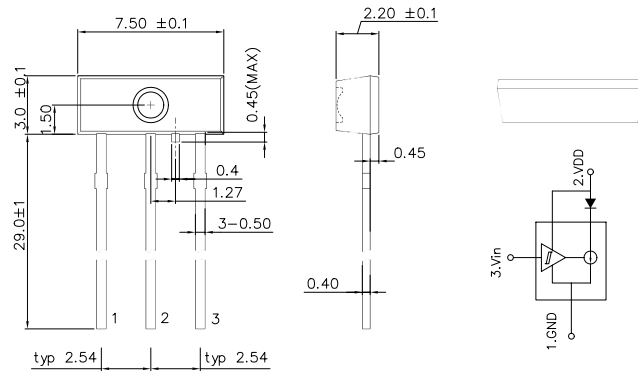


Part No.	Lens Color	Visible Light Fiber	Min. On State Collector Current $I_{C(ON)}$ (mA) @ $V_{CE}=5V$; $E_e=0.5mW/cm^2$; $\lambda=940nm$	Max. Dark Current (nA) @ $V_{CE}=20V$	Max. Collector-Emitter Saturation Voltage $V_{CE(SAT)}$ (V) @ $I_C=100\mu A$ $E_e=0.5mW/cm^2$	Min. Collector-Emitter Breakdown Voltage $V_{(BR)CEG}$ (V) @ $I_C=100\mu A$ $E_e=0mW/cm^2$
LTR-S320-TB	Dark	Yes	2	100	0.4	30

Photolink_Transmitter

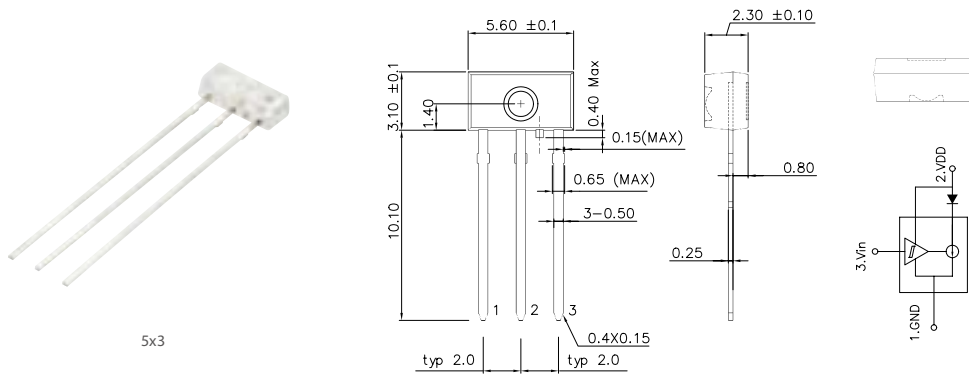


7x3



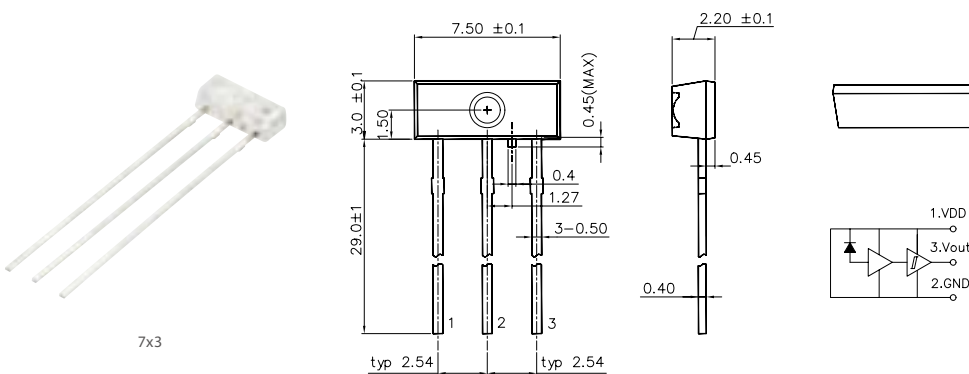
Part No.	Data Rate (Mbps)	Operating Voltage (V)		Fiber Coupling Light Output (dBm)		
		Min	Max	Min	Typ	Max
LTDL-TA16A	16	2.75	5.25	-21	-17	-15
LTDL-TA25A	25	2.75	5.25	-21	-17	-15

Photolink_Transmitter



Part No.	Data Rate (Mbps)	Operating Voltage (V)		Fiber Coupling Light Output (dBm)		
		Min	Max	Min	Typ	Max
LTDL-TA25B	25	2.75	5.25	-21	-17	-15

Photolink_Transmitter

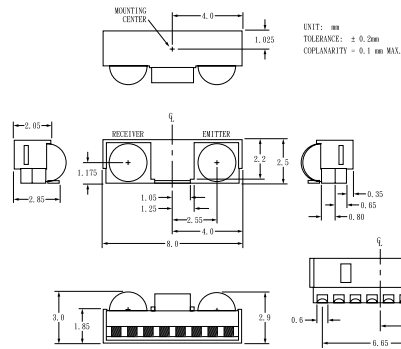


Part No.	Data Rate (Mbps)	Operating Voltage (V)		Input Sensitivity (dBm)	
		Min	Max	Min	Max
LTDL-RA16A	16	2.75	5.25	-27	-14
LTDL-RA25A	25	2.75	5.25	-24	-14

Infrared Transceiver



2.5 x 8.0 x 3.0 mm

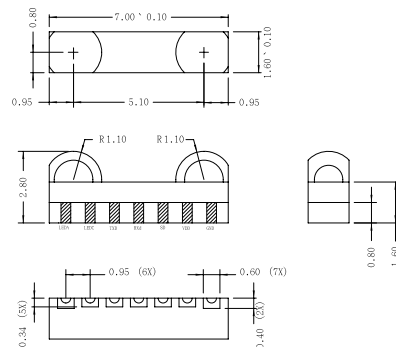


Part No.	Data Rate (kbit/s)	Package Dimension (H x W x D) (mm)	Link Distance (M)	Idle Current (mA)	Shutdown Current (nA)	Receiver Latency (uS)	Supply Voltage (V)	Front	Top	Front (Shielded)
HSDL-3201-021	115.2	2.50 x 8.00 x 3.00	0 to 0.3	0.1	20	25	2.7 to 3.6	V		-
HSDL-3201-008	115.2	2.50 x 8.00 x 3.00	0 to 0.3	0.1	20	25	2.7 to 3.6		V	-

Infrared Transceiver



1.6 x 7.0 x 2.8 mm

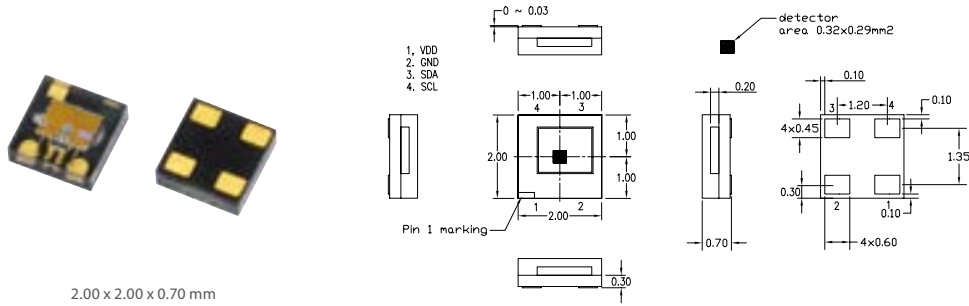


Part No.	Data Rate (kbit/s)	Package Dimension (H x W x D) (mm)	Link Distance (M)	Idle Current (mA)	Shutdown Current (nA)	Receiver Latency (uS)	Supply Voltage (V)	Front	Top	Front (Shielded)
HSDL-3208-025	115.2	1.60 x 7.00 x 2.80	0 to 0.3	0.1	1	70	2.7 to 3.6	V	-	-
HSDL-3208-S25	115.2	1.80 x 7.40 x 2.90	0 to 0.3	0.1	1	70	2.7 to 3.6	-	-	V



| Optical Sensor

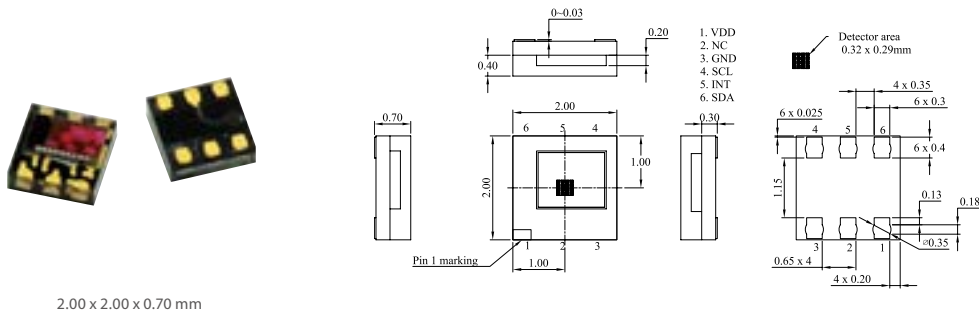
Ambient Light Sensor



2.00 x 2.00 x 0.70 mm

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range
LTR-329ALS	Digital Light Sensor	ChipLED 4 pins	-30 to +70	2.4 to 3.6	I2C fast mode (400kbit/s)	No	16-bit ADC (linear)	0.01 lux to 64k lux

Ambient Light Sensor



2.00 x 2.00 x 0.70 mm

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range
LTR-303ALS	Digital Light Sensor	ChipLED 6 pins	-30 to +70	2.4 to 3.6	I2C fast mode (400kbit/s)	Yes	16-bit ADC (linear)	0.01 lux to 64k lux

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

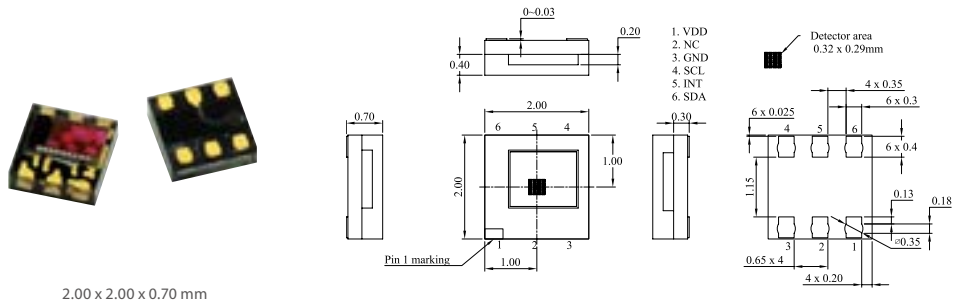
Infrared Emitter and Detector

Optical Sensors

Photocoupler

UV LED

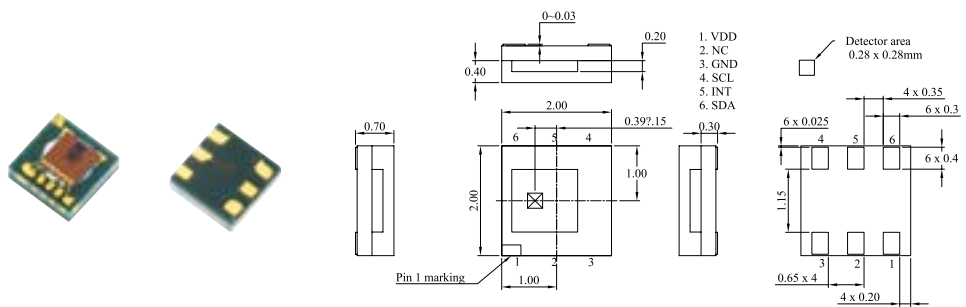
Ambient Light Sensor



2.00 x 2.00 x 0.70 mm

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range
LTR-308ALS	Very Low Power Consumption Digital Light Sensor	ChipLED 6 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux

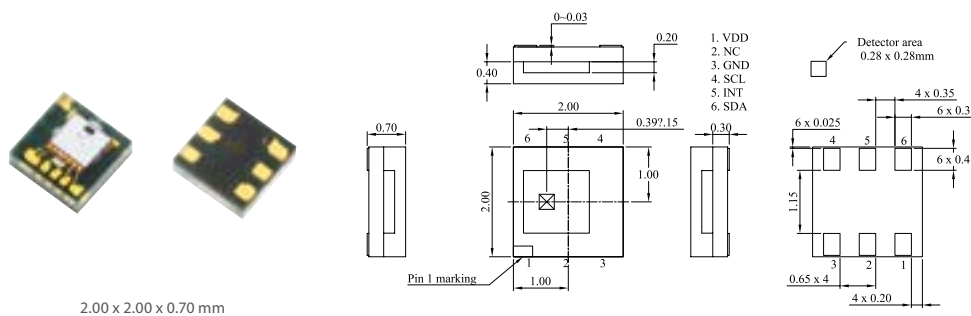
RGB Color Sensor



2.00 x 2.00 x 0.70 mm

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range
LTR-380RGB	RGB Sensor + Digital Light Sensor	ChipLED 6 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux

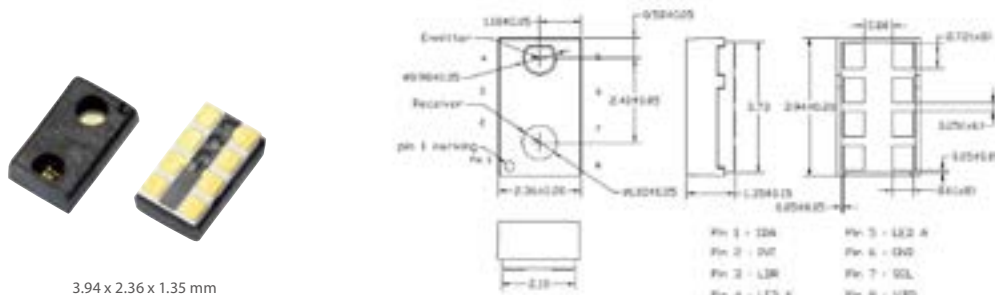
UV Sensor



2.00 x 2.00 x 0.70 mm

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS / UV Full Scale ADC Count	Light Range	UV Sensitivity (Count/UVI)
LTR-390UV	UV Sensor + Digital Light Sensor	ChipLED 6 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux	1400

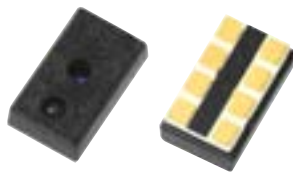
Proximity Sensor



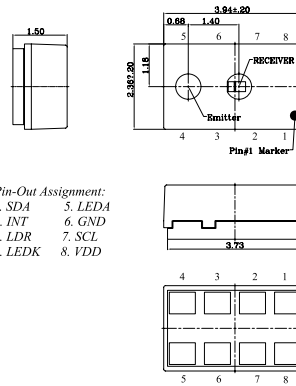
3.94 x 2.36 x 1.35 mm

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	PS Full Scale ADC Count	Detection Range (mm)
LTR-659PS	Digital Proximity Sensor+ IR LED	ChipLED 8 pins	-30 to +70	2.4 to 3.6	I2C fast mode (400kbit/s)	Yes	11-bit ADC(linear)	0-100

Proximity Sensor



3.94 x 2.36 x 1.50 mm



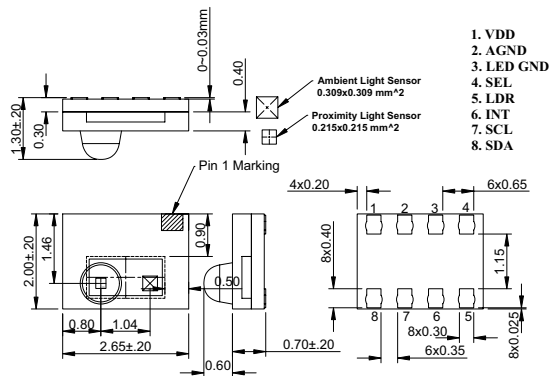
Pin-Out Assignment:
 1. SDA 5. LEDA
 2. INT 6. GND
 3. LDR 7. SCL
 4. LEDK 8. VDD

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	PS Full Scale ADC Count	Detection Range (mm)
LTR-676PS	Digital Proximity Sensor+ IR LED (Small Window)	ChipLED 8 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 11-bit ADC(linear)	0-100

2-in-1 Integrated Sensor



2.65 x 2.00 x 1.30 mm

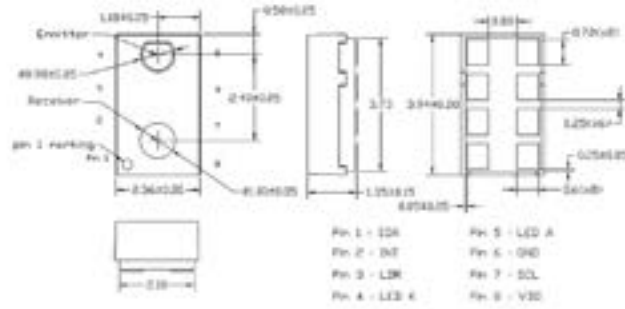


Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-507ALS	(2-in-1) Digital Light Sensor+Long Distance Proximity Sensor+LED Driver	ChipLED 8 pins	-40 to +85	2.4 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 64k lux	11-bit ADC(linear)	0-500

3-in-1 Integrated Sensor

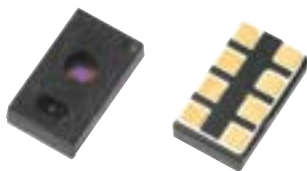


3.94 x 2.36 x 1.35 mm

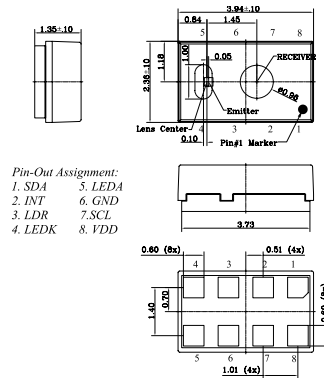


Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-559ALS	(3-in-1) Digital Light Sensor+Proximity Sensor+IR LED	ChipLED 8 pins	-30 to +70	2.4 to 3.6	I2C fast mode (400kbit/s)	Yes	16-bit ADC (linear)	0.01 lux to 64k lux	11-bit ADC(linear)	0-100

3-in-1 Integrated Sensor



3.94 x 2.36 x 1.35 mm



Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-578ALS	(3-in-1, Small Window, FOV = +/- \40deg) Digital Light Sensor+Proximity Sensor+IR LED	ChipLED 8 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux	Up to 11-bit ADC(linear)	0-100

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

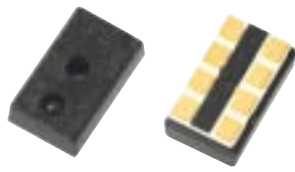
Infrared Emitter and Detector

Optical Sensors

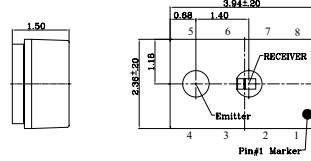
Photocoupler

UV LED

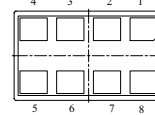
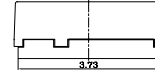
3-in-1 Integrated Sensor



3.94 x 2.36 x 1.35 mm

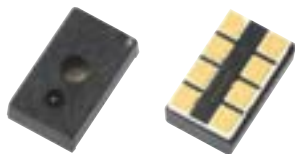


Pin-Out Assignment:
 1. SDA 5. LEDA
 2. INT 6. GND
 3. LDR 7. SCL
 4. LEDK 8. VDD

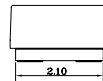
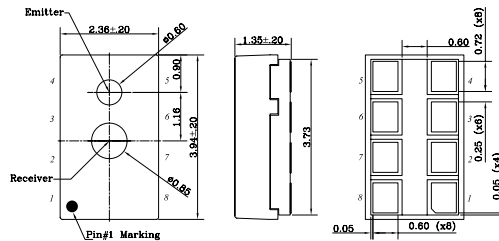


Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-579ALS	(3-in-1, Small Window, FOV = +/- 24deg) Digital Light Sensor+Proximity Sensor+IR LED	ChipLED 8 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux	Up to 11-bit ADC (linear)	0-100

3-in-1 Integrated Sensor



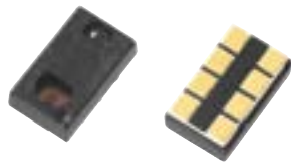
3.94 x 2.36 x 1.35 mm



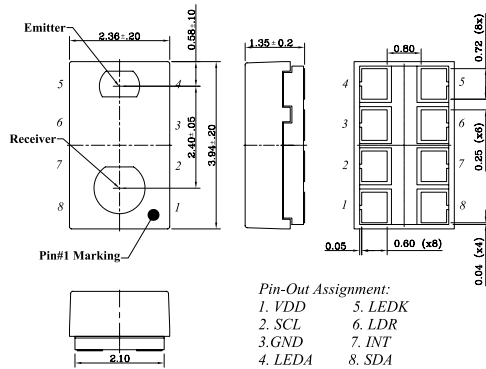
Pin-Out Assignment:
 1. SDA 5. LEDA
 2. INT 6. GND
 3. NC 7. SCL
 4. En-b 8. VDD

Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-778ALS	(3-in-1, Small Window, FOV = +/- 36deg) Digital Light Sensor+Proximity Sensor+VCSEL	ChipLED 8 pins	-30 to +70	2.7 to 3.6	I2C fast mode (400kbit/s)	Yes	16-bit ADC (linear)	0.005 lux to 12k lux	11-bit ADC (linear)	0-100

4-in-1 Integrated Sensor

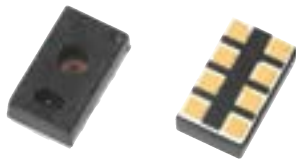


3.94 x 2.36 x 1.35 mm

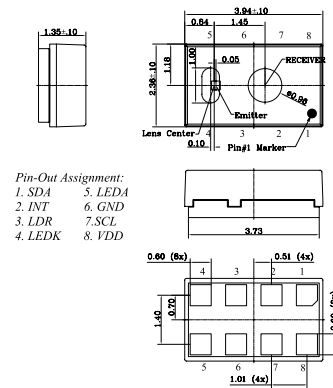


Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-580RGB	RGB Sensor+ Digital Light Sensor+ Proximity Sensor+ IR LED	ChipLED 8 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux	Up to 11-bit ADC(linear)	0-100

4-in-1 Integrated Sensor

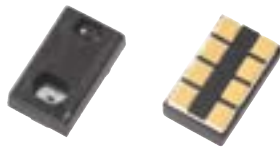


3.94 x 2.36 x 1.35 mm

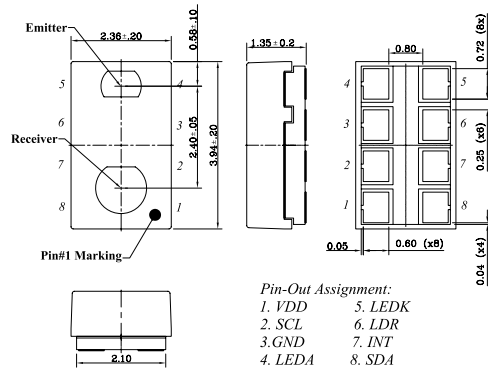


Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-588RGB	RGB Sensor+ Digital Light Sensor + Proximity Sensor + IR LED (Small Window)	ChipLED 8 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux	Up to 11-bit ADC(linear)	0-100

4-in-1 Integrated Sensor

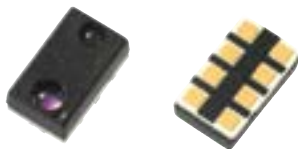


3.94 x 2.36 x 1.35 mm

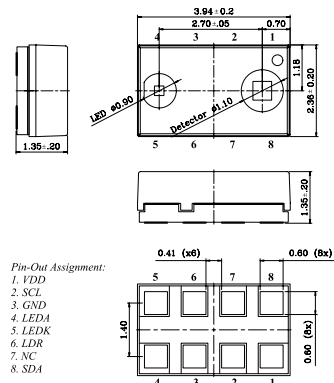


Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-590UV	UV Sensor+ Digital Light Sensor + Proximity Sensor + IR LED	ChipLED 8 pins	-40 to +85	1.7 to 3.6	I2C fast mode (400kbit/s)	Yes	Up to 20-bit ADC (linear)	0.01 lux to 157k lux	Up to 11-bit ADC (linear)	0-100

Gesture Integrated Sensor

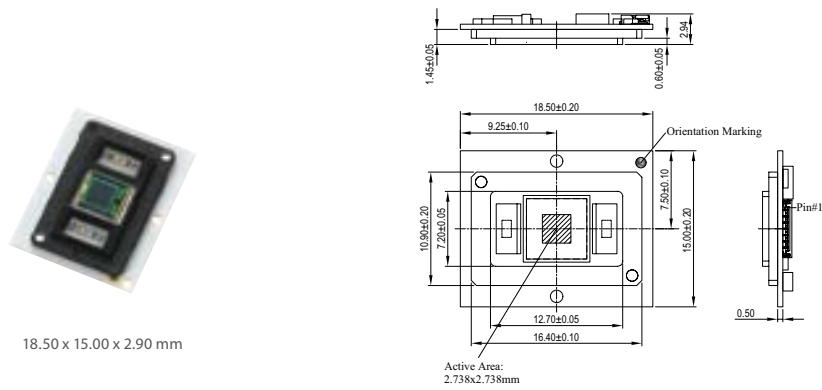


3.94 x 2.36 x 1.35 mm



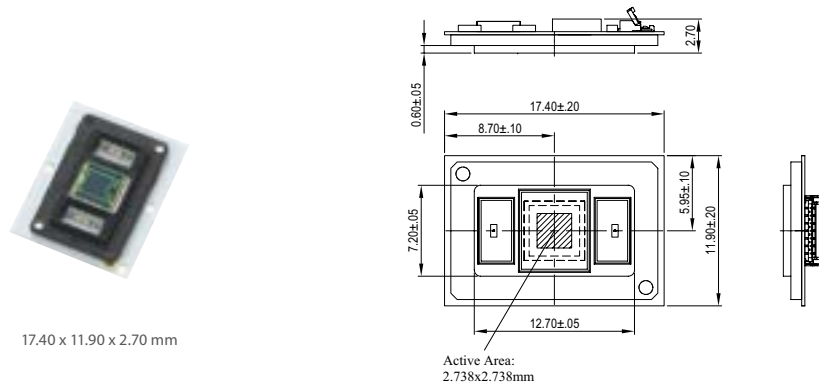
Part No.	Description	Package Type	Operating Temp (°C)	Supply Voltage (V)	Interface	Interrupt & Persist	DLS Full Scale ADC Count	Light Range	PS Full Scale ADC Count	Detection Range (mm)
LTR-91400	Gesture Sensor + Digital Light Sensor + Proximity Sensor + IR LED	ChipLED 8 pins	-30 to +70	2.4 to 3.6	I2C fast mode (400kbit/s)	Yes	16-bit ADC (linear)	0.01 lux to 64k lux	PS: 11-bit ADC (linear) GS: 8-bit ADC (linear)	0-100

Heart Rate Monitoring Sensor



Part No.	Description	Package Type	No of Pins	Operating Temp (°C)	Supply Voltage (V)	Supply Current (mA), Typ @25Hz	Standby Current (uA), Typ	Interface	Emitter Sensitivity
LTR-800HR	AFE Integrated Optical HRM Sensor	FPC connector	12	-20 to +85	3.0 to 3.6	0.76	5	I2C fast mode (400kbit/s)	Green (525nm)

Heart Rate Monitoring Sensor



Part No.	Description	Package Type	No of Pins	Operating Temp (°C)	Supply Voltage (V)	Supply Current (mA), Typ @25Hz	Standby Current (uA), Typ	Interface	Emitter Sensitivity
LTR-801HR	AFE + Accelerometer Integrated Optical HRM Sensor (Slim Package)	FPC connector	12	-20 to +85	3.0 to 3.6	0.76	5	I2C fast mode (400kbit/s)	Green (525nm)

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

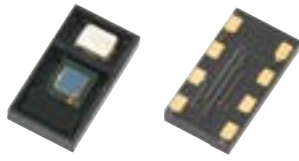
Infrared Emitter and Detector

Optical Sensors

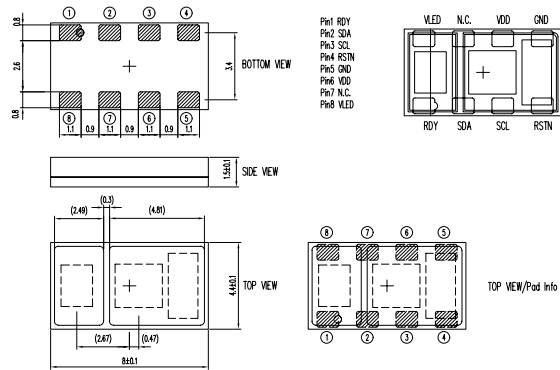
Photocoupler

UV LED

Heart Rate Monitoring Sensor

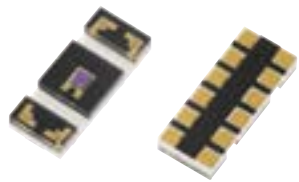


8.0 x 2.6 x 1.35 mm

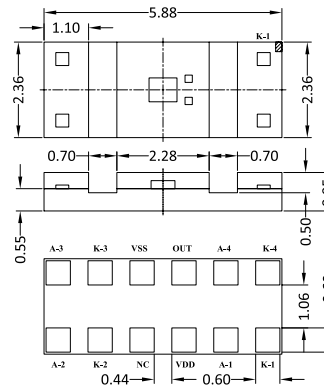


Part No.	Description	Package Type	No of Pins	Operating Temp (°C)	Supply Voltage (V)	Supply Current (mA), Typ @25Hz	Standby Current (uA), Typ	Interface	Emitter Sensitivity
LTR-806HR	AFE Integrated Optical HRM Sensor	SMT	6	-20 to +85	3.0 to 3.6	0.95	5	I2C fast mode (400kbit/s)	Green (525nm)

Heart Rate Monitoring Sensor

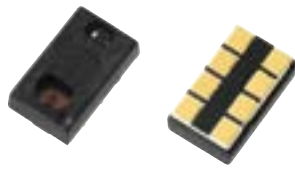


5.88 x 2.36 x 0.95 mm

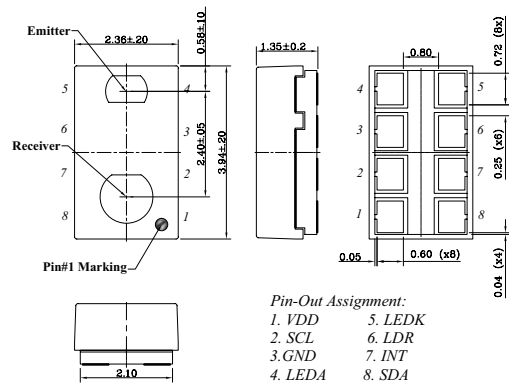


Part No.	Description	Package Type	No of Pins	Operating Temp (°C)	Supply Voltage (V)	Supply Current (mA), Typ @25Hz	Standby Current (uA), Typ	Interface	Emitter Sensitivity
LTR-810HR	Fully Integrated Analog Optical HRM Sensor with 4 Emitters	SMT	12	-20 to +85	1.5 to 5.5	N.A.	N.A.	Analog Output	Green (525nm)

Heart Rate Monitoring Sensor

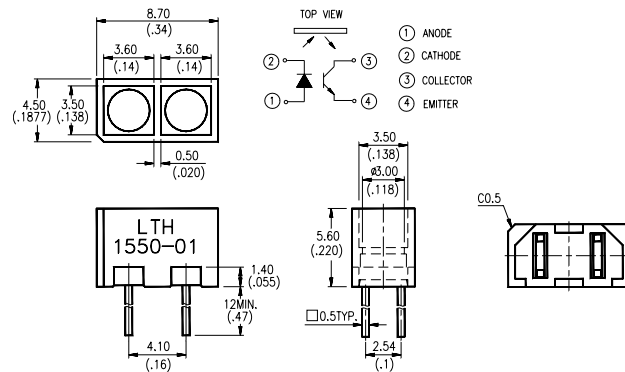


3.96 x 2.36 x 1.35 mm



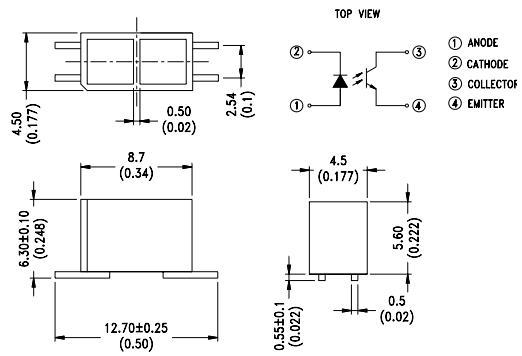
Part No.	Description	Package Type	No of Pins	Operating Temp (°C)	Supply Voltage (V)	Supply Current (mA), Typ @25Hz	Standby Current (uA), Typ	Interface	Emitter Sensitivity
LTR-820HR	Ultra Small Chipped Package Optical HRM Sensor	SMT	8	-40 to +85	1.7 to 3.6	N.A.	N.A.	I2C fast mode (400kbit/s)	IR (940nm)

Reflective Sensor



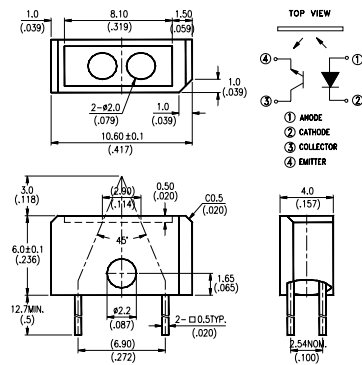
Part No.	Features	Focal Distance (mm)	Ic Min.(uA) @I _f =20mA /V _{CE} =5V
LTH-1550-01	Phototransistor output, PCB mounting	3.5	200

Reflective Sensor



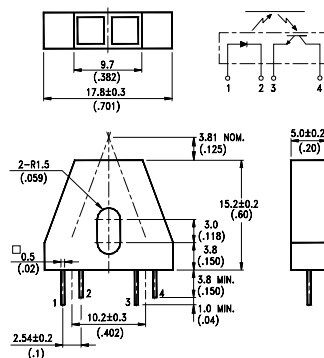
Part No.	Features	Focal Distance (mm)	Ic Min.(uA) @I _f =20mA /V _{CE} =5V
LTH-1550-06	Lead bends for surface mounting	3.5	750

Reflective Sensor



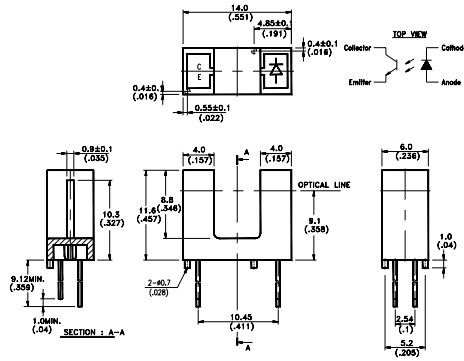
Part No.	Features	Focal Distance (mm)	Ic Min.(uA) @I _f =20mA /V _{CE} =5V
LTH-1650-01	Phototransistor output, PCB mounting	3	100

Reflective Sensor



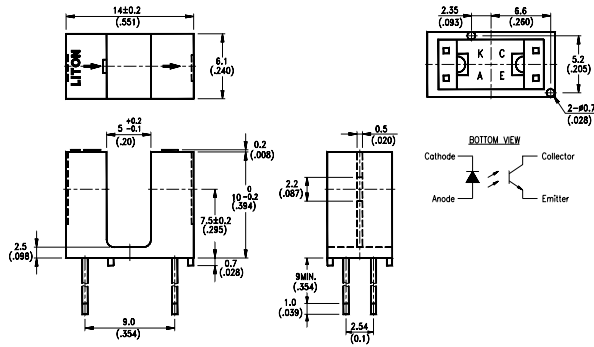
Part No.	Features	Focal Distance (mm)	Ic Min.(uA)@I _f =20mA /V _{CE} =5V
LTH-209-01	Phototransistor output, PCB mounting	3.81	160

Transmissive Sensor_Slotted Type



Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I _F =20mA /V _{CE} =5V
LTH-301-05	Phototransistor output, PCB mounting type. With positioning pin	10.45	6	0.5

Transmissive Sensor_Slotted Type



Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I _F =20mA /V _{CE} =5V
LTH-301-07	Phototransistor output, PCB mounting type. With positioning pin	9	5	0.6

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

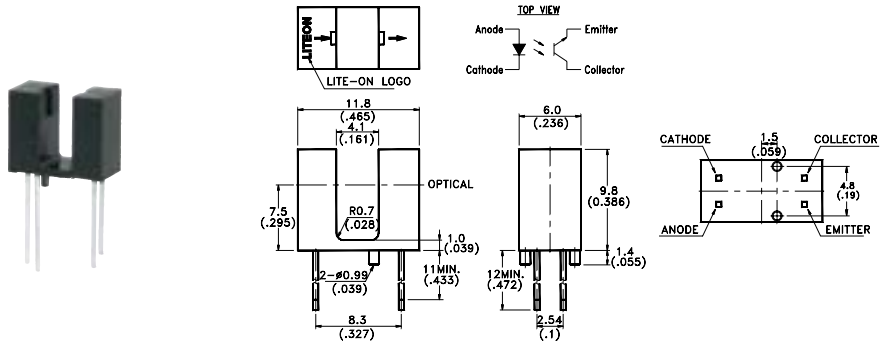
Infrared Emitter and Detector

Optical Sensors

Photocoupler

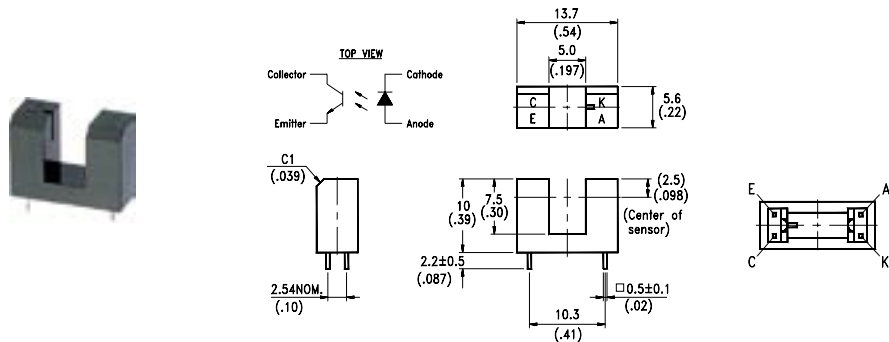
UV LED

Transmissive Sensor_Slotted Type



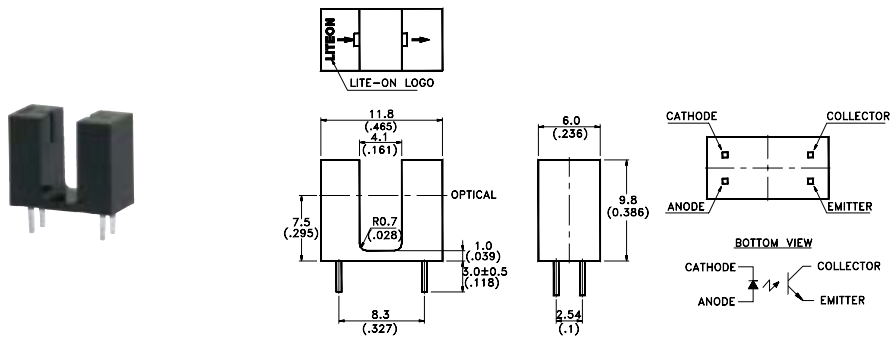
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(uA)@I _F =1.4mA /V _{CE} =3.3V
LTH-301-19	Phototransistor output, PCB mounting type. With positioning pin	8.3	4.1	70

Transmissive Sensor_Slotted Type



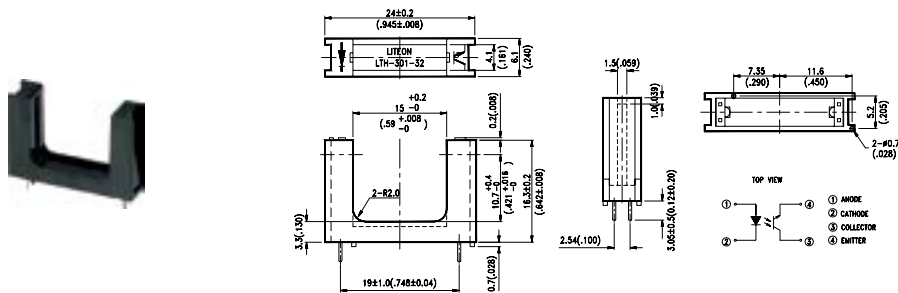
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I _F =20mA /V _{CE} =5V
LTH-301-23	Phototransistor output, PCB mounting type.	10.3	5	0.4

Transmissive Sensor_Slotted Type



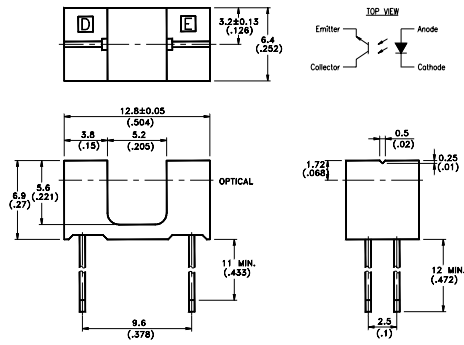
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I _F =20mA /V _{CE} =5V
LTH-301-27P1	Phototransistor output, PCB mounting type	8.3	4.1	1.5

Transmissive Sensor_Slotted Type



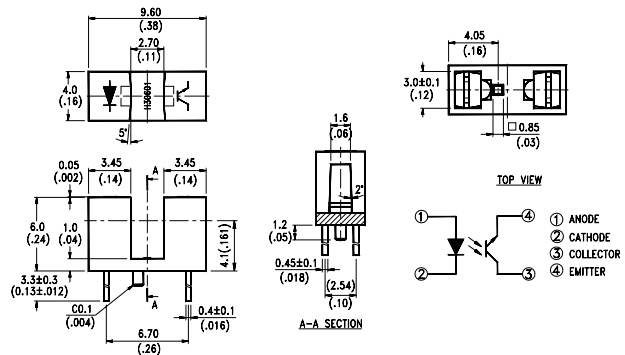
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I _F =20mA /V _{CE} =5V
LTH-301-32	Phototransistor output, PCB mounting type. With positioning pin, Wide gap	19	15	0.6

Transmissive Sensor_Slotted Type



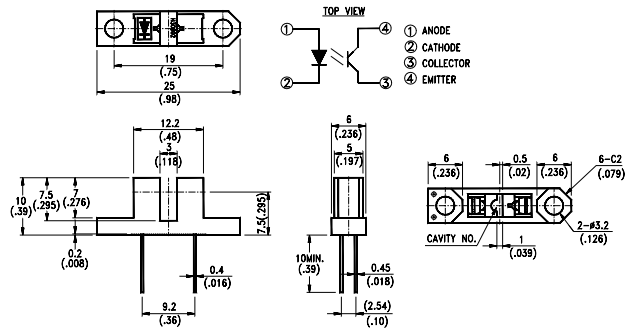
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I _F =20mA /V _{CE} =5V
LTH-301A	Phototransistor output, PCB mounting type	9.6	5.2	0.5

Transmissive Sensor_Slotted Type



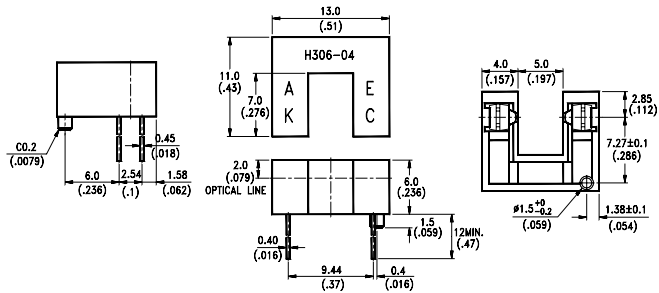
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I _F =20mA /V _{CE} =5V
LTH-306-01	Phototransistor output, PCB mounting type. With positioning pin	6.7	2.7	5

Transmissive Sensor_Slotted Type



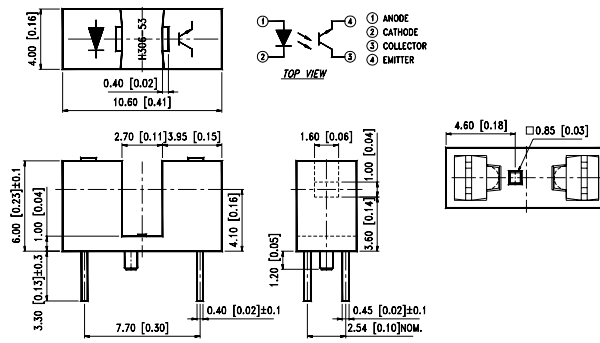
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I _F =20mA /V _{CE} =5V
LTH-306-02	Phototransistor output, Both PCB and screw mounting type	9.2	3	0.5

Transmissive Sensor_Slotted Type



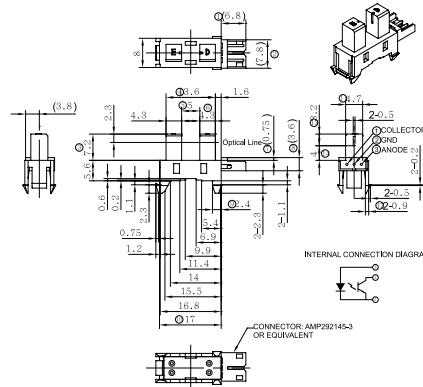
Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I _F =20mA /V _{CE} =5V
LTH-306-04	Phototransistor output, PCB mounting type. With positioning pin	9.44	5	0.5

Transmissive Sensor_Slotted Type



Part No.	Features	Lead Distance (mm)	Emitting and Detecting Gap (mm)	I _c Min.(mA)@I _F =20mA /V _{CE} =5V
LTH-306-53P1	Phototransistor output, PCB mounting type. With positioning pin	7.7	2.7	1.2

Transmissive Sensor_Slotted Type



Part No.	Features	Emitting and Detecting Gap (mm)	I _c Min.(mA)@I _F =20mA /V _{CE} =5V
LTH-306-64	Phototransistor output, Snap PCB mounting. With a built-in connector	5	0.5

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

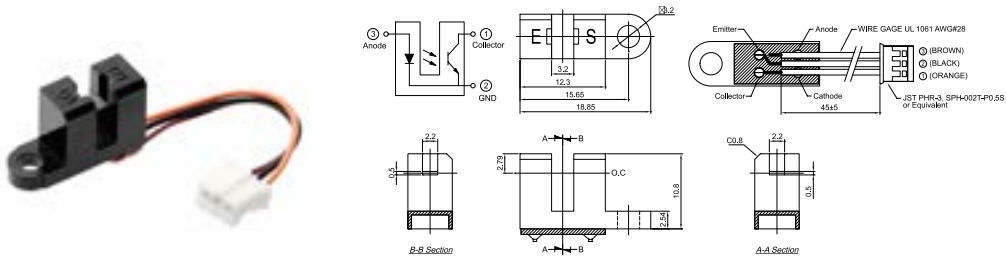
Infrared Emitter and Detector

Optical Sensors

Photocoupler

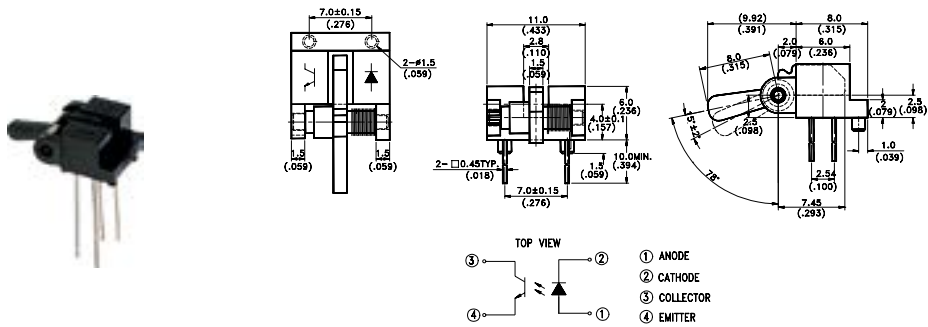
UV LED

Transmissive Sensor_Slotted Type



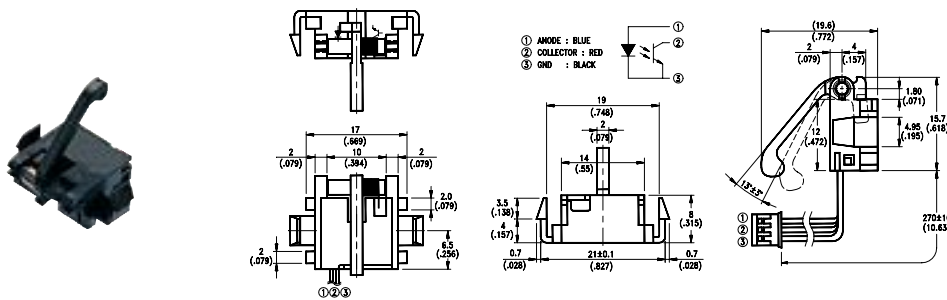
Part No.	Features	Wire Length (mm)	Emitting and Detecting Gap (mm)	Ic Min.(mA)@I _f =20mA /V _{CE} =5V
LTH-301-45W2	Phototransistor output, PCB mounting type. With positioning pin, Horizontal slit	45±5	3.2	0.5

Transmissive Sensor_Actuator Type



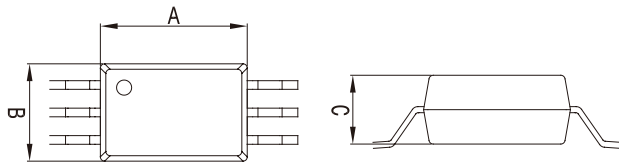
Part No.	Features	Action Angle	Lead Distance (mm)	Ic Min.(mA)@I _f =20mA /V _{CE} =5V
LTH-306-09P1	With Flag, Phototransistor output, PCB mounting type	15±2°	7	0.5




















Transmissive Sensor_Actuator Type



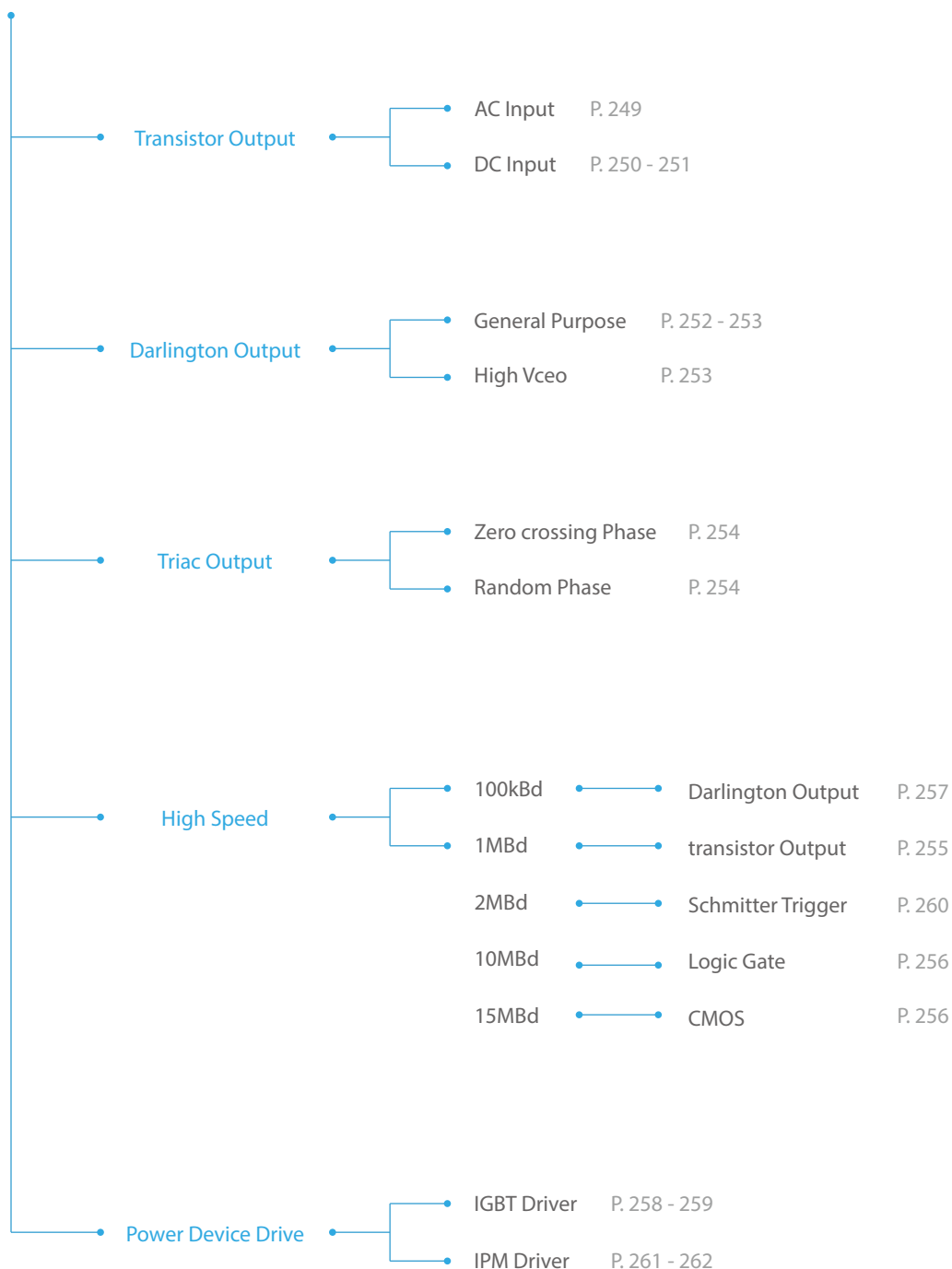
Part No.	Features	Action Angle	Wire Length (mm)	Ic Min.(mA)@I _f =20mA /V _{CE} =5V
LTH-306-06W1	With Flag, wire and connector, Phototransistor output, Snapin mounting	8±3°	270±10	0.5

| Photocoupler



	package	size A x B x C
    DIP4 DIP4-M DIP4-S DIP4-S2 option	DIP4	6.5 x 4.6 x 3.5
 DIP6	DIP6	6.5 x 7.3 x 3.5
   DIP8 DIP8-S2 option DIP7-SSR	DIP8	6.5 x 9.68 x 3.5
 DIP16	DIP16	6.5 x 19.84 x 3.5
 SOP4	SOP4	4.4 x 3.85 x 2.0
 SOP5	SOP5	4.4 x 3.6 x 2.3
 SOP8	SOP8	3.91 x 5.84 x 3.18
 LSOP4	LSOP4	7.5 x 3.8 x 2.0
   LSOP5 LSOP6-P type LSOP6-W type	LSOP6	6.81 x 4.5 x 3.18
 SSOP4	SSOP4	4.4 x 2.6 x 2.0
 SSOP8	SSOP8	4.4 x 5.2 x 2.0
 SSOP16	SSOP16	4.4 x 10.28 x 2.0

Photocoupler package



Flash LED
SMD LED
Through Hole Lamp
LED Display
Automotive LED
Signage LED
Lighting LED
Infrared Emitter and Detector
Optical Sensors
Photocoupler
UV LED

General Purpose Phototransistor Photocoupler

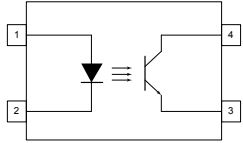
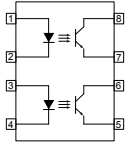
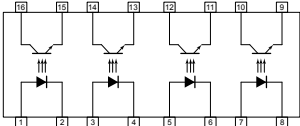
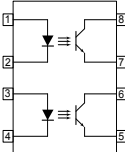
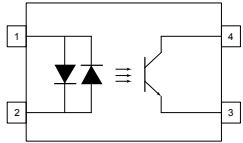
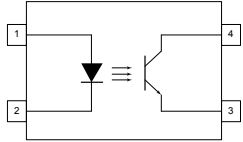
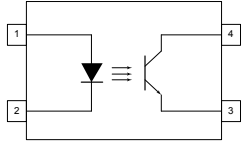
A general purpose Photocoupler is the most common and preferred choice for providing isolated feedback in a regulation loop. They are available in 1-channel, 2-channel and 4-channel, both DC and AC inputs, to suit the requirements of multiple isolation such as interfaces between logic circuits.

Application

- ◆ Ground loop elimination
- ◆ Interface between logic circuits
- ◆ Level shifting
- ◆ Regulation feedback circuits in SMPS



Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I _F (mA)
LTV-214		AC input, High Vceo	SSOP4	3750	80	20	400	±1
LTV-224		AC input, 2 Channels, High Vceo	SSOP8	3750	80	20	400	±1
LTV-244		AC input, 4 Channels, High Vceo	SSOP16	3750	80	20	400	±1
LTV-814		AC input	DIP4	5000	35	20	300	±1
LTV-824		AC input, 2 Channels	DIP8	5000	35	20	300	±1
LTV-844		AC input, 4 Channels	DIP16	5000	35	20	300	±1
LTV-733		AC input, With Base Connection	DIP6	5000	35	20	-	±1

Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I _f (mA)
LTV-217		DC input, High Vceo	SSOP4	3750	80	80	600	5
LTV-227		DC input, 2 Channels, High Vceo	SSOP8	3750	80	80	600	5
LTV-247		DC input, 4 Channels, High Vceo	SSOP16	3750	80	80	600	5
LTV-200		DC input, 2 Channels, High Vceo	SOP8	3750	80	20	320	10
LTV-205				3750	80	40	80	10
LTV-206				3750	80	63	125	10
LTV-207				3750	80	100	200	10
LTV-208				3750	80	160	320	10
LTV-354T		AC input	SOP4	3750	35	20	400	±1
LTV-358T		DC input, Very High Vceo	SOP4	3750	120	80	400	5
LTV-356T		DC input, High Vceo	SOP4	3750	80	50	600	5
LTV-357T		DC input	SOP4	3750	35	50	600	5
LTV-1000		DC input, High Vceo, Creepage distance >8mm	LSOP4	5000	70	50	600	5
LTV-1001				5000	70	100	160	5
LTV-1002				5000	70	22 63	125	1 10
LTV-1003				5000	70	34 100	200	1 10
LTV-1004				5000	70	100	200	5
LTV-1005				5000	70	50	150	5
LTV-1006				5000	70	100	300	5
LTV-1007				5000	70	80	160	5
LTV-1008				5000	70	130	260	5
LTV-1009				5000	70	200	400	5
LTV-1010				5000	70	150	300	5
LTV-1014				5000	70	56 160	320	1 10
LTV-1018				5000	70	100	200	1
LTV-1019				5000	70	250	500	5

Flash LED
SMD LED
Through Hole Lamp
LED Display
Automotive LED
Signage LED
Lighting LED
Infrared Emitter and Detector
Optical Sensors
Photocoupler
UV LED

General Purpose Phototransistor Photocoupler

Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I _c (mA)
LTV-1100		DC input, High V _{ceo} , Creepage distance >8mm	LSOP5	5000	70	50	600	5
LTV-1101				5000	70	100	160	5
LTV-1102				5000	70	22 63	125	1 10
LTV-1103				5000	70	34 100	200	1 10
LTV-1104				5000	70	100	200	5
LTV-1105				5000	70	50	150	5
LTV-1106				5000	70	100	300	5
LTV-1107				5000	70	80	160	5
LTV-1108				5000	70	130	260	5
LTV-1109				5000	70	200	400	5
LTV-816		DC input, High V _{ceo}	DIP4	5000	80	50	600	5
LTV-817		DC input	DIP4	5000	35	50	600	5
LTV-826		DC input, 2 Channels, High V _{ceo}	DIP8	5000	80	50	600	5
LTV-827		DC input, 2 Channels	DIP8	5000	35	50	600	5
LTV-846		DC input, 4 Channels, High V _{ceo}	DIP16	5000	80	50	600	5
LTV-847		DC input, 4 Channels	DIP16	5000	35	50	600	5
LTV-851		DC input, Very High V _{ceo}	DIP4	5000	300	40	-	5
4N25		DC input, With Base Connection	DIP6	2500	30	20	-	10
4N26				1500	30	20	-	10
4N27				1500	30	10	-	10
4N28				500	30	10	-	10
4N35				3550	30	100	-	10
4N37				1500	30	100	-	10
CNY17-1				5000	70	40	80	10
CNY17-2				5000	70	63	125	10
CNY17-3	5000	70	100	200	10			
CNY17-4	5000	70	160	320	10			
LTV-702V	5000	70	40	320	10			
CNY17F-1		DC input Without Base Connection	DIP6	5000	70	40	80	10
CNY17F-2				5000	70	63	125	10
CNY17F-3				5000	70	100	200	10
CNY17F-4				5000	70	160	320	10
LTV-702F				5000	70	40	320	10

Darlington Transistor Output Photocoupler

These photocouplers provide a very high current transfer ratio from a low input forward current. In addition, they are available in DC and AC inputs by DIP package as well as 2.0mm profile (mini-flat) package to increase designers' options. High input-output isolation voltage and high collector-emitter voltage also add to the benefits for many power distribution applications.

Application

- ◆ Hybrid substrates that require high density mounting
- ◆ Telephone sets
- ◆ Copiers, facsimiles
- ◆ Interfaces with various power supply circuits, power distribution boards



Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I _f (mA)
LTV-215		DC input	SSOP4	3750	40	200	-	1
LTV-245		DC input, 4 Channels	SSOP16	3750	40	200	-	1
LTV-355T		DC input	SOP4	3750	35	600	7500	1
LTV-815		DC input	DIP4	5000	35	600	7500	1
LTV-825		DC input, 2 Channels	DIP8	5000	35	600	7500	1
LTV-845		DC input, 4 Channels	DIP16	5000	35	600	7500	1

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

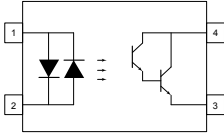
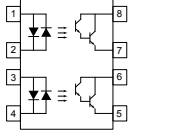
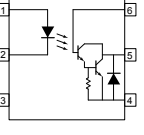
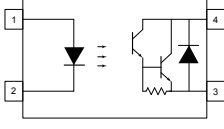
Infrared Emitter and Detector

Optical Sensors

Photocoupler

UV LED

Darlington Transistor Output Photocoupler

Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I _f (mA)
LTV-8141		AC input	DIP4	5000	35	600	7500	±1
LTV-8241		AC input, 2 Channels	DIP4	5000	35	600	7500	±1
LTV-8441		AC input, 4 Channels	DIP4	5000	35	600	7500	±1
LTV-715F		DC input Without Base Connection	DIP6	5000	35	600	7500	1
LTV-725F		DC input, Very High Vceo With Base Connection	DIP6	5000	300	1000	15000	1
LTV-725V		DC input, Very High Vceo With Base Connection	DIP6	5000	300	1000	15000	1
LTV-352T		DC input, High Vceo	SOP4	3750	300	1000	-	1
LTV-852		DC input, High Vceo	DIP4	5000	300	1000	15000	1

Triac Output Photocoupler

Triac output photocouplers provide a high isolation voltage between input and output V_{iso} of 3,750 Vrms (SOP)/5,000Vrms(DIP6). With two options of zero-crossing and non-zero crossing type of triac driver output, it will provide flexibility for circuit designers. Other benefits include high Off-State Output Terminal Voltage (400V, 600V & 800V) and high critical rate of rise of off-state voltage (min 1000V/ μ s).

Application

- ◆ AC Motor Drives
- ◆ AC Motor Starters
- ◆ E.M. Contactors
- ◆ Lighting Controls
- ◆ Solenoid/Valve Controls
- ◆ Solid State Relays
- ◆ Static Power Switches
- ◆ Temperature Controls



Part No.	Device	Feature	Package	V_{iso} (Vrms)	Off-State Output V_{drm} (V)	Trigger Current IFT(mA)
MOC3023		400V VDRM, Random phase	DIP6	5000	400	5
LTV-3023		400V VDRM, Random phase	SOP4	3750	400	5
MOC3052-L		600V VDRM, Random phase	DIP6	5000	600	5
MOC3052-H		800V VDRM, Random phase	DIP6	5000	800	10
LTV-3052		600V VDRM, Random phase	SOP4	3750	600	10
MOC3063		600V VDRM, Zero-crossing	DIP6	5000	600	5
LTV-3063		600V VDRM, Zero-crossing	SOP4	3750	600	5
MOC3083		800V VDRM, Zero-crossing	DIP6	5000	800	5
LTV-3083		800V VDRM, Zero-crossing	SOP4	3750	800	5

Flash LED
SMD LED
Through Hole Lamp
LED Display
Automotive LED
Signage LED
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Infrared Emitter and Detector
Optical Sensors
Photocoupler
UV LED

1Mbd Transistor Output photocoupler

These photocouplers consist of a high efficiency AlGaAs Light Emitting Diode and a high speed optical detector. This design provides excellent AC and DC isolation between the input and output sides of the photocoupler. The connection for the bias of the photodiode improves upon the speed of a conventional phototransistor coupler by reducing the base-collector capacitances. The internal shield ensures high common mode transient immunity. A guaranteed common mode transient immunity is up to 15KV/ μ sec.

Application

- ◆ High Voltage Isolation
- ◆ Isolation in line receivers
- ◆ Feedback element in switching mode power supplies
- ◆ Power transistor isolation in motor drives
- ◆ Interface between Microprocessor system, computer and their peripherals



- ◆ Replace pulse transformers
- ◆ Replace slower photocoupler isolators

Part No.	Device	Feature	Package	V _{DD} (V) max.	CTR min(%)	CTR max(%)	I _{F(on)} (mA)	t _{PLH} (us)	t _{PHL} (us)	CM _L CM _H Min(V)	Viso min (Vrms)
6N135-L		DC Input	DIP8	15	7	50	16	1.5	1.5	1000	5000
6N136-L		DC Input	DIP8	15	19	50	16	0.8	0.8	1000	5000
6N135-H		DC Input	DIP8	30	7	50	16	1.5	1.5	10000	5000
6N136-H		DC Input	DIP8	30	19	50	16	0.8	0.8	10000	5000
LTV-M501		DC Input	SOP5	30	20	50	16	0.8	0.8	15000	3750
LTV-0501		DC Input	SOP8	30	19	-	16	0.8	0.8	15000	3750
LTV-053L		DC Input, Dual channel	SOP8	30	19	-	16	0.8	0.8	15000	3750
LTV-50LW LTV-50LP		DC Input	LSOP6	30	20	-	16	0.8	0.8	15000	5000

10MBd Logic Gate/ 15MBd CMOS Photocoupler

These high gain series couplers use a AlGaAs LED and an integrated high gain photo detector to provide an extremely high current transfer ratio between input and output. Separate pins for the photodiode and output stage result in TTL compatible saturation voltage and high speed operation. Where desired the Vcc and Vo terminals may be tied together to achieve conventional photo Darlington operation. A base access terminal allows a gain bandwidth adjustment to be made.

Application

- ◆ High Voltage Isolation
- ◆ Isolation in line receivers
- ◆ Ground loop elimination
- ◆ Feedback Element in Switching Mode Power Supplies
- ◆ High Speed Logic Ground Isolation – TTL / TTL, TTL / CMOS, TTL / LSTTL
- ◆ Pulse transformer replacement
- ◆ Power transistor isolation in motor drives
- ◆ Interface between Microprocessor system, computer and their peripherals



Part No.	Device	Feature	Package	V _{DD} (V)	I _{F(on)} min(mA)	tPLH(ns) Max	tPHL(ns) Max	PWD(ns) MAX	CM _L Min(V)	CM _H Min(V)	Viso min (Vrms)
6N137-L		DC input, 10 MBd, Logic Gate output	DIP8	3.3/5	5	90	75	35	10000	5000	
LTV-M601		DC input, 10 MBd, Logic Gate output	SOP5	3.3/5	5	90	75	35	10000	3750	
LTV-0601		DC input, 10 MBd, Logic Gate output	SOP8	3.3/5	5	90	75	35	10000	3750	
LTV-063L		DC input, 10 MBd, Dual channel, Logic Gate output	SOP8	3.3/5	5	90	75	35	10000	3750	
LTV-60LW LTV-60LP		DC input, 10 MBd, Logic Gate output	LSOP6	3.3/5	5	90	75	35	10000	5000	
LTV-071L		DC input, 15MBd, Totem Pole output	SOP8	3.3/5	5	60	60	30	10000	3750	
LTV-074L		DC input, 15MBd, Dual channel, Totem Pole output	SOP8	3.3/5	5	60	60	30	10000	3750	
LTV-70LW LTV-70LP		DC input, 15MBd, Totem Pole output	LSOP6	3.3/5	5	60	60	30	10000	5000	

Flash LED
SMD LED
Through Hole Lamp
LED Display
Automotive LED
Signage LED
Lighting LED
Infrared Emitter and Detector
Optical Sensors
Photocopier
UV LED

100kBd Darlington Output Photocoupler

These high gain series couplers use a AlGaAs LED and an integrated high gain photo detector to provide an extremely high current transfer ratio between input and output. Separate pins for the photodiode and output stage result in TTL compatible saturation voltage and high speed operation. Where desired the Vcc and Vo terminals may be tied together to achieve conventional photo Darlington operation. A base access terminal allows a gain bandwidth adjustment to be made.

Application

- ◆ Digital logic ground isolation
- ◆ Low input current line receiver
- ◆ Telephone ring detector
- ◆ EIA-RS-232C line receiver
- ◆ Current loop receiver
- ◆ High common mode noise line receiver



Part No.	Device	Feature	Package	V _{DC} (V)	I _{F(on)} min (mA)	CTR min(%)	I _F (mA)	t _{PLH} (us)	t _{PHL} (us)	CM _L CM _H Min(V)	Viso min (Vrms)
6N138-L		DC input	DIP8	3.3/5	1.6	400	1.6	35	10	1000	5000
6N139-L		DC input	DIP8	3.3/5	0.5	300 500	0.5 1.6	60	25	1000	5000
LTV-M701		DC input	SOP5	3.3/5	1.6	400 500	0.5 1.6	10	2	1000	3750
LTV-0701		DC input	SOP8	3.3/5	0.5	400 500	0.5 1.6	10	2	1000	3750
LTV-073L		DC input, Dual channel	SOP8	3.3/5	0.5	400 500	0.5 1.6	60	25	1000	3750

Integrated Gate Drive Photocoupler

These photocouplers are ideally suited for driving power IGBTs and MOSFETs used in motor control inverter applications and inverters in power supply system. It contains an AlGaAs LED optically coupled to an integrated circuit with a power output stage. The 2.5A~3A peak output current is capable of directly driving most IGBTs with ratings up to 1200 V/100 A. The photocoupler operational parameters are guaranteed over the temperature range from -40°C ~ +105°C.

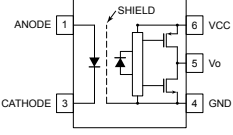
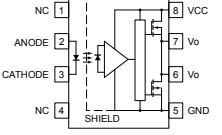
Application

- ◆ IGBT/MOSFET gate drive
- ◆ Uninterruptible power supply (UPS)
- ◆ Industrial Inverter
- ◆ Motor Drive
- ◆ Induction Heat Cooker



Part No.	Device	Feature	Package	$I_{F(on)}$ min (mA)	Peak Output Current min(A)	Peak Output Current max(A)	tPLH (us) Max	tPHL (us) Max	PWD (ns) Max	Supply Voltage (Vcc)	CM _i CM _h Min(V)	Viso min (Vrms)
LTV-3120		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	DIP8	7	2	2.5	0.5	0.5	70	15-35	25000	5000
LTV-3150		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	DIP8	7	0.8	1	0.2	0.2	70	15-35	25000	5000
LTV-3150-L		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	DIP8	7	0.8	1	0.2	0.2	70	10-35	25000	5000
LTV-3180		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	DIP8	7	2	2.5	0.2	0.2	70	10-35	25000	5000
LTV-T350		DC Input, Direct drive of a medium-power, Low power dissipation	DIP8	7	2	2.5	0.5	0.5	200	15-35	25000	5000
LTV-152		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	SOP5	7	2	2.5	0.17	0.19	70	10-35	20000	3750
LTV-155E		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	SOP5	7	0.8	1	0.2	0.2	70	10-35	20000	3750

Integrated Gate Drive Photocoupler

Part No.	Device	Feature	Package	$I_{F(on)}$ min (mA)	Peak Output Current min(A)	Peak Output Current max(A)	tPLH (μ s) Max	tPHL (μ s) Max	PWD (ns) Max	Supply Voltage (Vcc)	CM_{L} Min(V)	Viso min (Vrms)
LTV-341W LTV-341P		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	LSOP6	7	2.5	3	0.2	0.2	70	15-35	35000	5000
LTV-340W LTV-340P		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	LSOP6	7	0.8	1	0.2	0.2	70	15-35	35000	5000
LTV-314W LTV-314P		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	LSOP6	7	0.8	1	0.2	0.2	70	10-35	25000	5000
LTV-0314		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	SOP8	7	0.8	1	0.2	0.2	70	10-35	25000	3750

Schmitt Trigger

Liteon H11Lx-L has a high-speed integrated circuit detector (5Mbd typical) optically coupled to infrared emitting diode. The output incorporates a Schmitt Trigger which provides hysteresis for noise immunity and pulse shaping.

Application

- ◆ Logic to logic isolator
- ◆ Programmable current level sensor
- ◆ Line receiver—eliminate noise and transient problems
- ◆ A.C. to TTL conversion—square wave shaping
- ◆ Digital programming of power supplies
- ◆ Interfaces computers with peripherals



Part No.	Device	Feature	Package	$I_{F_{ON}}^{max}$ (mA)	Turn-on time max(us)	Turn-off time max(us)	Data rate (Mbd)	V_{CC} (V)	Viso (Vrms)
H11L1-L		DC input	DIP6	1.6	1	1	2	3-16	5000
H11L2-L		DC input	DIP6	10	1	1	2	3-16	5000
H11L3-L		DC input	DIP6	5	1	1	2	3-16	5000

Flash LED

SMD LED

Through Hole Lamp

LED Display

Automotive LED

Signage LED

Lighting LED

Infrared Emitter and Detector

Optical Sensors

Photocoupler

UV LED

Intelligent Power Module Interface Photocoupler

Lite-On offers photocouplers ideal for isolated interfacing to an intelligent power module (IPM). IPM-drive photocouplers are available with an output in open-collector and inverting and noninverting totem-pole configurations. Therefore, you can find optimal photocouplers that best fit your needs, regardless of the input configuration (active level) of the driven IPM.

Application

- ◆ Intelligent power module
- ◆ Inverter/Motor control
- ◆ Power switch design
- ◆ General purpose digital isolation



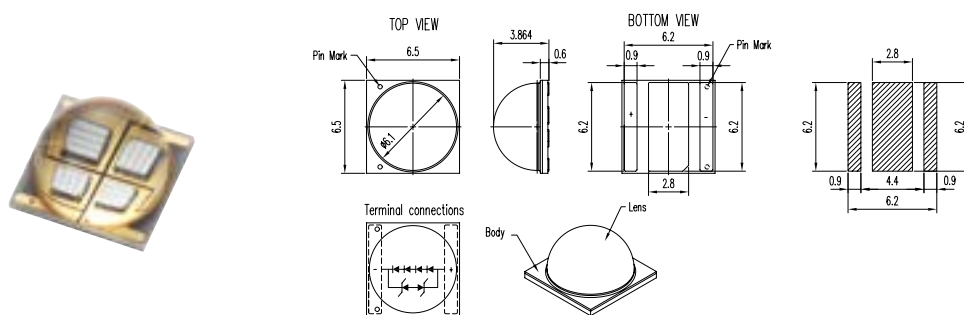
Part No.	Device	Feature	Package	$I_{F(on)}$ min (mA)	I_O min (mA)	CTR min(%)	CTR max(%)	I_F (mA)	tPLH (us)	tPHL (us)	P_{DD} max (us)	V_{CC} max (V)	C_{ML} C_{MH} Min (V)	V_{iso} (Vrms)
LTV-M480		DC Input, IPM Totem Pole output, buffer logic	SOP5	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	3750
LTV-M481		DC Input, IPM Totem Pole output, Inverted logic	SOP5	4	160	-	-	-	0.16	0.16	0.16	35	20000	3750
LTV-480W LTV-480P		DC Input, IPM Totem Pole output, buffer logic	LSOP6	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	5000
LTV-481W LTV-481P		DC Input, IPM Totem Pole output, Inverted logic	LSOP6	4	160	-	-	-	0.16	0.16	0.16	35	20000	5000
LTV-0480		DC Input, IPM Totem Pole output, buffer logic	SOP8	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	3750
LTV-0481		DC Input, IPM Totem Pole output, Inverted logic	SOP8	4	160	-	-	-	0.16	0.16	0.16	35	20000	3750

Part No.	Device	Feature	Package	$I_{F(ON)}$ min (mA)	I_O min (mA)	CTR min(%)	CTR max(%)	I_F (mA)	tPLH (us)	tPHL (us)	P_{DD} max (us)	V_{CC} max (V)	C_{ML} C_{MH} Min (V)	V_{ISO} (Vrms)	
LTV-4800		DC Input, IPM Totem Pole output, buffer logic	DIP8	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	5000	Flash LED
LTV-4800-7		DC Input, IPM Totem Pole output, buffer logic	DIP8	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	5000	SMD LED
LTV-4801		DC Input, IPM Totem Pole output, Inverted logic	DIP8	4	160	-	-	-	0.16	0.16	0.16	35	20000	5000	Through Hole Lamp
LTV-M456		DC Input, IPM open collector output	SOP5	10	4.4	44	>90	10	0.55	0.4	0.45	35	15000	3750	LED Display
LTV-456W LTV-456P		DC Input, IPM open collector output	LSOP6	10	4.4	44	>90	10	0.55	0.4	0.45	35	15000	5000	Automotive LED
LTV-0456		DC Input, IPM open collector output	SOP8	10	4.4	44	>90	10	0.55	0.4	0.45	35	15000	3750	Signage LED
LTV-4506		DC Input, IPM open collector output	DIP8	10	4.4	44	>90	10	0.55	0.4	0.45	35	15000	5000	Lighting LED
															Infrared Emitter and Detector
															Optical Sensors
															Photocoupler
															UV LED



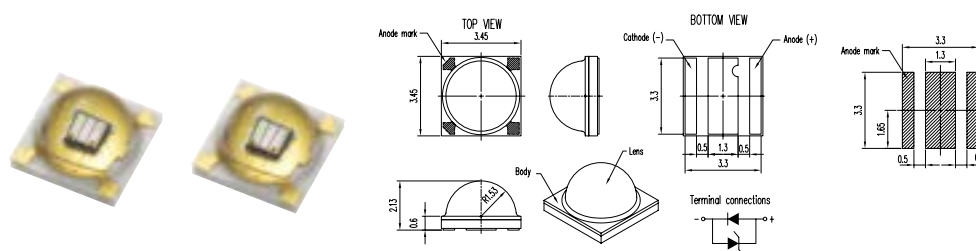
| UV LED

UV LED



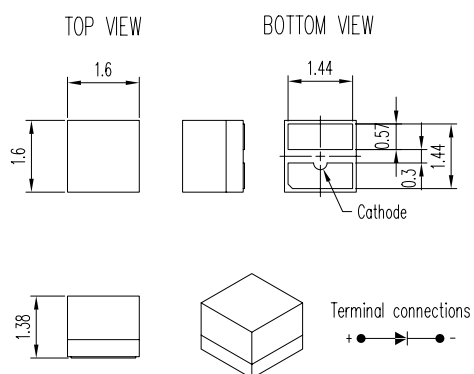
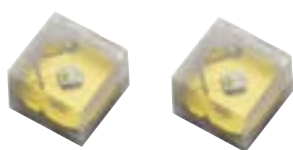
Part No.	λ_p (nm)	Min. Radiant Power (mW)	Max. Radiant Power (mW)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTPL-C08UVH365	365	2240	3340	130	15.0	500
LTPL-C08UVH375	375	2240	3340	130	14.8	500
LTPL-C08UVH385	385	3100	4200	130	14.5	500
LTPL-C08UVH395	395	3100	4200	130	14.0	500
LTPL-C08UVH405	405	3100	4200	130	14	500

UV LED



Part No.	λ_p (nm)	Min. Radiant Power (mW)	Max. Radiant Power (mW)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTPL-C034UVD365	365	380	530	130	4.0	350
LTPL-C034UVH365	365	560	900	130	4.0	500
LTPL-C034UVD375	375	380	530	130	4.0	350
LTPL-C034UVH375	375	560	900	130	3.8	500
LTPL-C034UVD385	385	510	660	130	3.8	350
LTPL-C034UVH385	385	775	1135	130	3.7	500
LTPL-C034UVD395	395	460	660	130	3.6	350
LTPL-C034UVH395	395	775	1135	130	3.5	500
LTPL-C034UVD405	405	460	660	130	3.5	350
LTPL-C034UVH405	405	775	1135	130	3.4	500
LTPL-C034UVH430	430	775	1135	130	3.4	500

UV LED



Part No.	λ_p (nm)	Min. Radiant Power (mW)	Max. Radiant Power (mW)	View Angle $2\theta_{1/2}$	Typ. Forward Voltage V_f (V)	Forward Current I_f (mA)
LTPL-C16FUVVM365	365	14	26	135	3.5	20
LTPL-C16FUVVM375	375	14	26	135	3.5	20
LTPL-C16FUVVM385	385	16	28	135	3.3	20
LTPL-C16FUVVM395	395	16	28	135	3.2	20
LTPL-C16FUVH400	400	440	590	135	3.3	350
LTPL-C16FUVVM405	405	16	28	135	3.1	20