

LED LAMP

LED Lamp

Part No. System

L – 51 3 G D
X1 X2 X3 X4 X5

LED LAMP

X1		X2		X3	
LED Item		Lens Type		Lead Length	
Code	Type	Code	Type	Code	Type
L	LAMP	21	2mm Dia. Round	1	0.8" with Stand-off
		31	3mm Dia. Round	2	0.5" Standard
		41	Rectangular	3	1" with Large Reflector
		51	5mm Dia. Round	4	1" with Small Reflector
		5	1" with 3 Leads for Dual Colors
				7	1" with 2 Leads for Dual Colors
				9	1" with 3 Leads for Dual Colors

X4		X5	
Emitted Color		Lens Color	
Code	Type	Code	Type
G	GaP 570nm Yellow Green	C	Water Clear
UB5	GaN 470nm Blue	T	Color Transparent
LPG6	GaN 525nm Ultra Green	W	White Diffused
Y	GaAsP 587nm Yellow	D	Color Diffused
A	GaAsP 605nm Amber		
E	GaAsP 628nm Orange		
SR	GaAlAs 640nm Red		
VG3	GaAlInP 572nm Super Yellow Green		
VYA / VYX / LY1	GaAlInP 587nm Super Yellow		
LY5	GaAlInP 590nm Super Yellow		
VEA / VEX	GaAlInP 624nm Super Orange		
HUR	GaAlInP 633nm Super Red		
UW5 / QW	GaN White		

LED Lamp

Reference Part No. System

L – M R 3 G C 001
 X1 X2 X3 X4 X5 X6 X7

X1		X2		X3		X4
LED Item		Announced Year		Shape of Lens		Diameter of Lens (mm)
Code	Type	Code	Type	Code	Type	
L	LAMP	H	2008	R	Round	
		J	2009	E	Ellipse	
		K	2010	S	Rectangular	
		L	2011	F	Super Flux LED	
		M	2012			
				

X5		X6		X7
Emitted Color		Lens Color		Series Number
Code	Type	Code	Type	
G	GaP 570nm Yellow Green	C	Water Clear	
UB5	GaN 470nm Blue	T	Color Transparent	
LPG6	GaN 525nm Ultra Green	W	White Diffused	
Y	GaAsP 587nm Yellow	D	Color Diffused	
A	GaAsP 605nm Amber			
E	GaAsP 628nm Orange			
SR	GaAlAs 640nm Red			
VG3	GaAlInP 572nm Super Yellow Green			
VYA / VYX / LY1	GaAlInP 587nm Super Yellow			
LY5	GaAlInP 590nm Super Yellow			
VEA / VEX	GaAlInP 624nm Super Orange			
HUR	GaAlInP 633nm Super Red			
UW5 / QW	GaN White			

LED LAMP

Holder LED

Part No. System

$\frac{L-H}{X1}$ $\frac{3}{X2}$ $\frac{1}{X3}$ $\frac{1}{X4}$ $\frac{005}{X5}$ $\frac{B}{X6}$

LED LAMP

X1	X2	X3	X4
LED Item	Diameter of Lamp Lens(mm)	Number of Lamp	Holder type

Code Type

LH Holder LED

X5	X6
Series Number	Pin Length(mm)

Code Type

A	2.75
B	3.00
C	3.20
D	3.30
E	3.50
F	4.00
G	5.00
H	18.00
...	...

LED Lamp / Holder LED

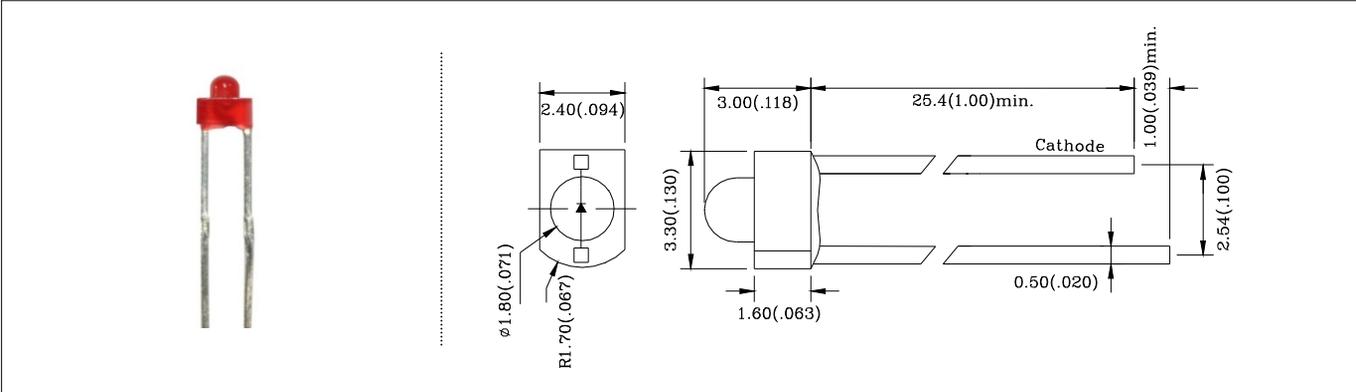
Reliability Test

Classification	Test Item	Test Condition	Reference Standard
Endurance Test	Operation Life	Ta: 25±5℃ RH: ≦60%RH IF: 20mA *Test Time: 168HRS (-12HRS, +12HRS) 500HRS (-24HRS, +24HRS) 800HRS (-24HRS, +24HRS) 1000HRS (-24HRS, +72HRS)	MIL-STD-750D:1026 (1995) MIL-STD-883D:1005 (1991)
	High Temperature High Humidity Storage	Ta= 65±5℃,RH= 90~95% *Test Time= 240HRS±2HRS	MIL-STD-202F:103B(1980)
	IR-Reflow	Warm Up: 230℃ 240 sec. Reflow : 260℃ 40 sec. 2 cycles	JEITA ED-4701300-301
	Salt Spray	Ta: 35℃ ±3℃ Brine:5% Test Time: 48HRS	MIL-STD-202G:101E
	Temperature Cycling	105℃ ~ 25℃ ~ -55℃ ~ 25℃ 30min. 5min. 30min. 5min. 10 cycles	MIL-STD-202F:107D (1980) MIL-STD-750D:1051(1995) MIL-STD-883D:1010 (1991)
	Thermal Shock	105±5℃ -55℃ ±5℃ 10mins. 10mins. 10 cycles	MIL-STD-202F:107D(1980) MIL-STD-750D:1051(1995) MIL-STD-883D:1011 (1991)
	Solder Resistance	Tsol= 265 ± 5℃ Dwell Time= 10 ± 1 sec.	MIL-STD-202F:210A(1980) MIL-STD-750D:2031(1995)
	Solder Ability	Tsol: 250℃ ± 5℃ Dwell Time =5 ± 1 sec.	MIL-STD-202F:208D(1980) MIL-STD-750D:2026(1995) MIL-STD-883D:2003(1991) IEC 68 Part 2-20

- All Lamp/Holder LED product dimensions are in millimeters (inches).
- Tolerance is ±0.25mm(0.01") unless otherwise specified.

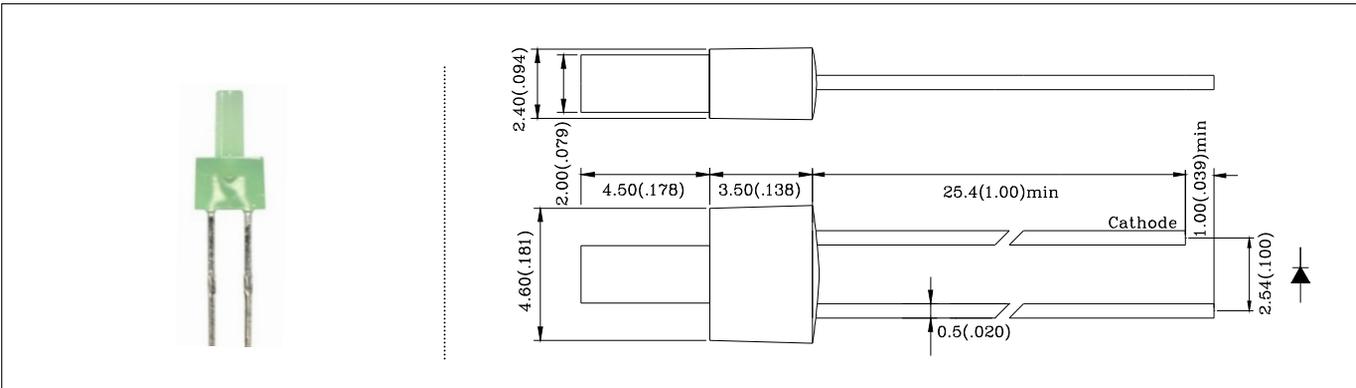
- Specifications are subject to change without notice.

L-204XX -1.8mm Dia. TOWER TYPE LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-204ED-E610	LJR2AD999	GaAsP	Amber	Orange Diffused	605	2.1	2.6	30	60
L-204GD	LJR2GD998	GaP	Yellow Green	Green Diffused	570	2.2	2.6	15	60
L-204YD	LJR2YD997	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	12	60
L-204ED	LJR2ED996	GaAsP	Orange	Red Diffused	628	2.1	2.6	25	60
L-204SRD	LJR2SRD995	GaAlAs	Red	Red Diffused	640	1.8	2.2	40	60

L-214XX -2.0mm TOWER TYPE LED LAMP

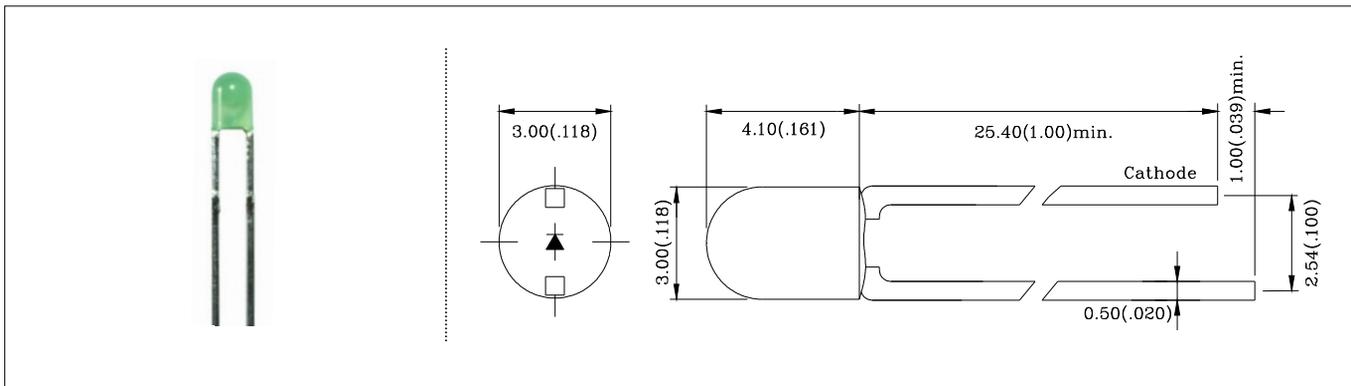


Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-214EC-610	LJR2AC994	GaAsP	Amber	Water Clear	605	2.1	2.6	15	60
L-214GD	LJR2GD993	GaP	Yellow Green	Green Diffused	570	2.2	2.6	3	90
L-214YD	LJR2YD992	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	2	90
L-214ED	LJR2ED991	GaAsP	Orange	Red Diffused	628	2.1	2.6	4	90
L-214SRD	LJR2SRD990	GaAlAs	Red	Red Diffused	640	1.8	2.2	5	90
L-214LY1C	LJR2LY1C989	GaAlInP	Super Yellow	Water Clear	587	2.1	2.6	120	60

LED LAMP

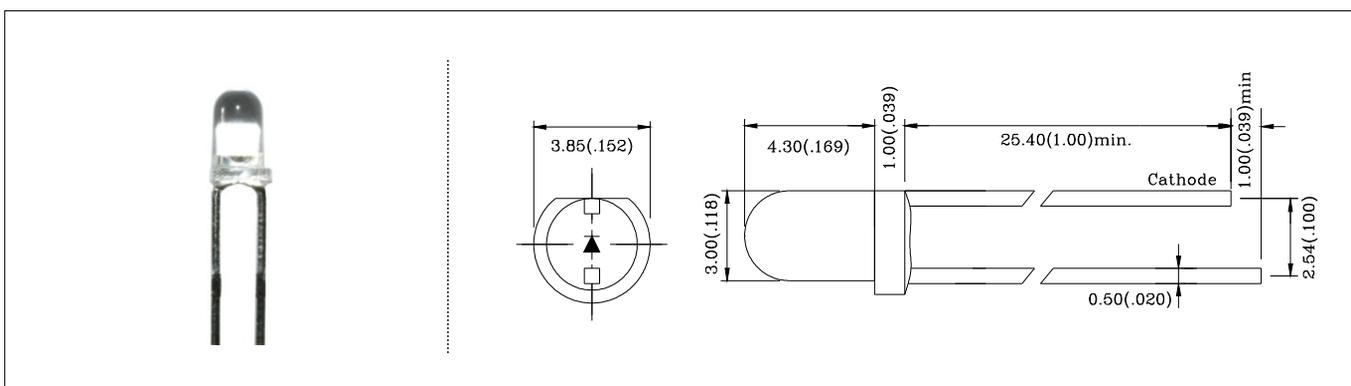
L-304XX -3.0mm Dia. LED LAMP

LED LAMP



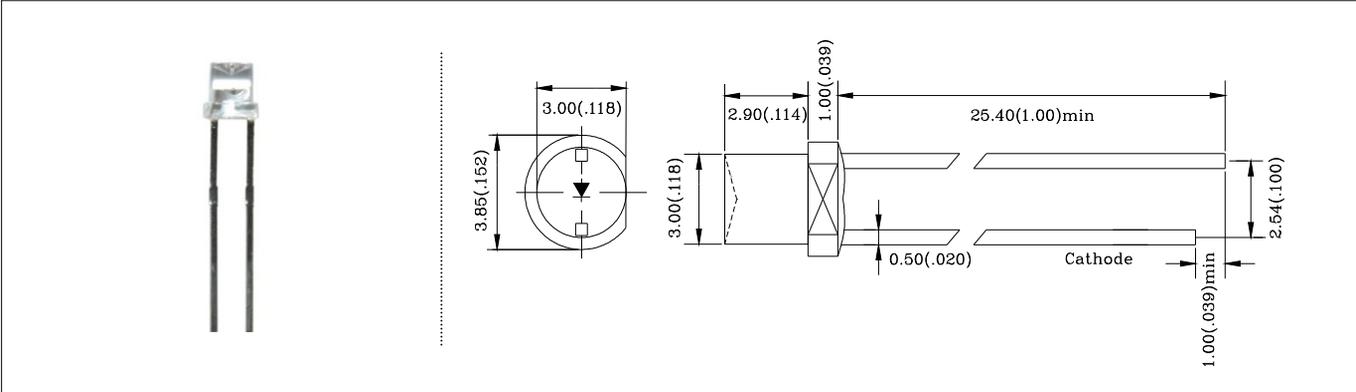
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-304UB5C	LJR3UB5C988	GaN	Blue	Water Clear	470	3.2	3.8	2000	60
L-304GD	LJR3GD987	GaP	Yellow Green	Green Diffused	570	2.2	2.6	35	110
L-304YD	LJR3YD986	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	25	110
L-304ED	LJR3ED985	GaAsP	Orange	Red Diffused	628	2.1	2.6	20	110
L-304SRD	LJR3SRD984	GaAlAs	Red	Red Diffused	640	1.8	2.2	40	110

L-314XX -3.0mm Dia. LED LAMP



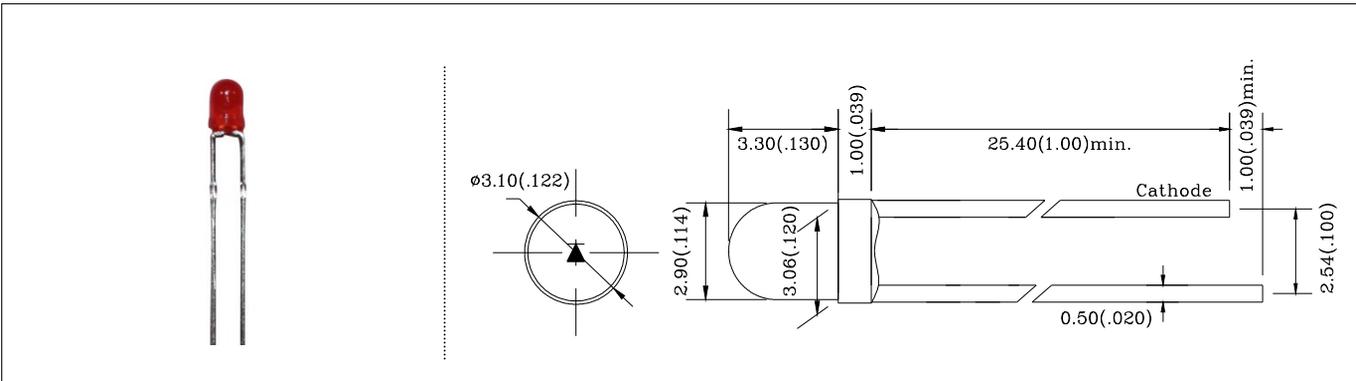
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-314LPG6C	LJR3LPG6C983	GaN	Ultra Green	Water Clear	525	3.2	3.8	5000	20
L-314GD	LJR3GD982	GaP	Yellow Green	Green Diffused	570	2.2	2.6	20	110
L-314YD	LJR3YD981	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	15	110
L-314ED	LJR3ED980	GaAsP	Orange	Red Diffused	628	2.1	2.6	25	110
L-314VG3C	LJR3VG3C979	GaAlnP	Super Yellow Green	Water Clear	572	2.0	2.6	600	20
L-314UB5C	LJR3UB5C978	GaN	Blue	Water Clear	470	3.2	3.8	3000	20

L-334XX -3.0mm Dia. CYLINDRICAL BACKLIGHTING LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λD (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-334VY5C	LJR3VY5C977	GaAlInP	Super Yellow	Water Clear	590	2.0	2.6	300	120
L-334GD	LJR3GD976	GaP	Yellow Green	Green Diffused	570	2.2	2.6	2	150
L-334YD	LJR3YD975	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	1.5	150
L-334ED	LJR3ED974	GaAsP	Orange	Red Diffused	628	2.1	2.6	4	150
L-334HURC	LJR3HURC973	GaAlInP	Super Red	Water Clear	633	2.0	2.6	55	120

L-354XX -3.0mm Dia. LED LAMP

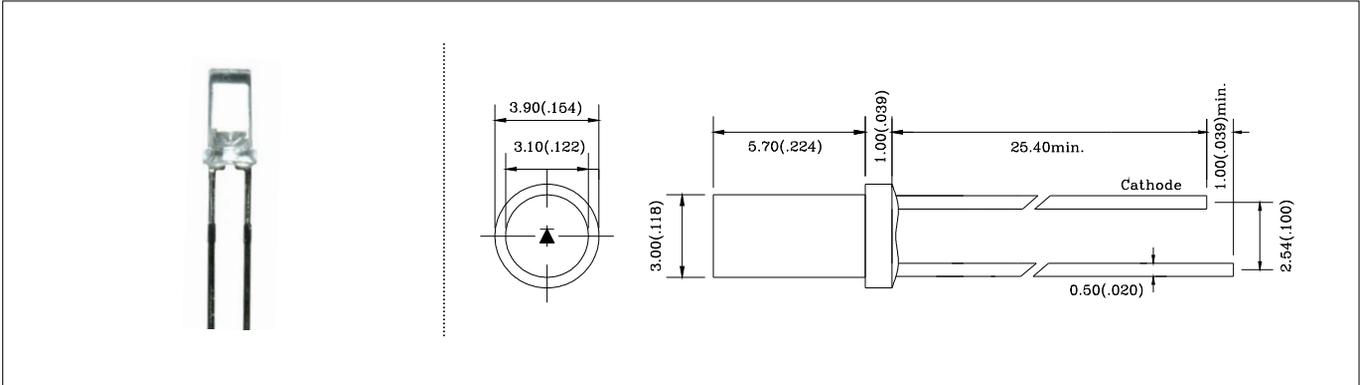


Part No	Ref. PN	Chip		Lens Color	Wave length λD (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-354LY1D	LJR3LY1D972	GaAlInP	Super Yellow	Yellow Diffused	587	2.0	2.6	70	110
L-354GD	LJR3GD971	GaP	Yellow Green	Green Diffused	570	2.2	2.6	20	110
L-354YD	LJR3YD970	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	15	110
L-354ED	LJR3ED969	GaAsP	Orange	Red Diffused	628	2.1	2.6	25	110
L-354SRD	LJR3SRD968	GaAlAs	Red	Red Diffused	640	1.8	2.2	50	110
L-354LPG6C	LJR3LPG6C967	GaN	Ultra Green	Water Clear	525	3.2	3.8	4000	30

LED LAMP

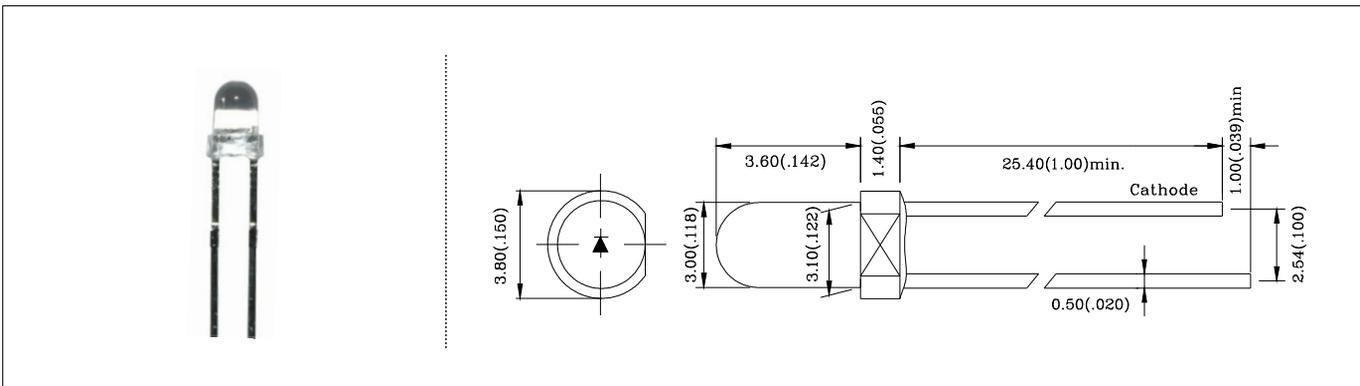
L-3N4XX -3.0mm Dia. CYLINDRICAL LED LAMP

LED LAMP



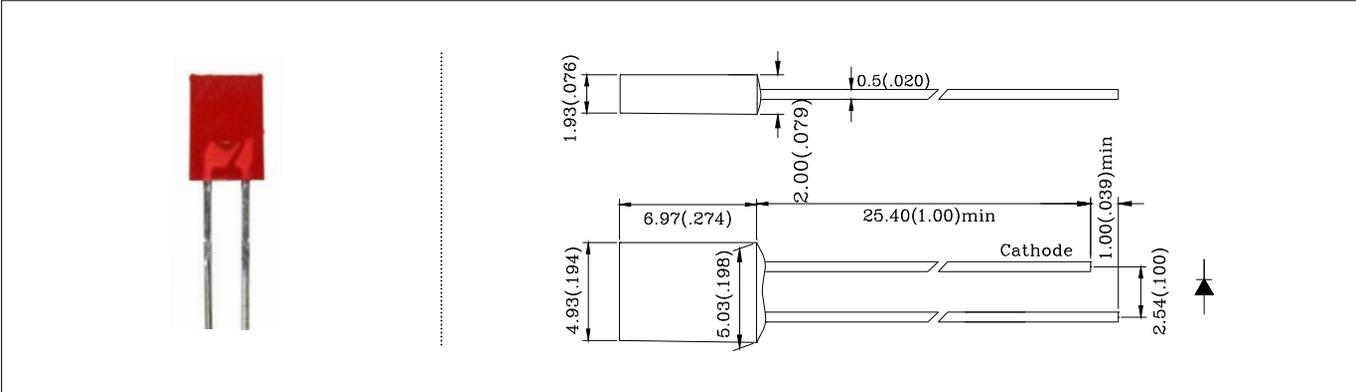
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-3N4UB5C	LJR3UB5C966	GaN	Blue	Water Clear	470	3.2	3.8	900	100
L-3N4GD	LJR3GD965	GaP	Yellow Green	Green Diffused	570	2.2	2.6	6	150
L-3N4YD	LJR3YD964	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	4	150
L-3N4ED	LJR3ED963	GaAsP	Orange	Red Diffused	628	2.1	2.6	10	150
L-3N4SRD	LJR3SRD962	GaAlAs	Red	Red Diffused	640	1.8	2.2	20	150

L-3U4XX -3.0mm Dia. LED LAMP



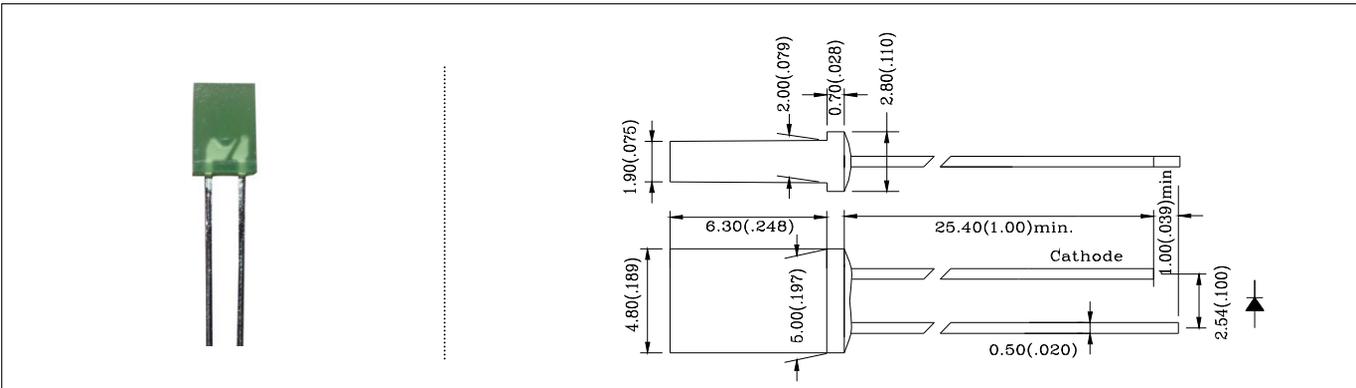
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-3U4LPG6C	LJR3LPG6C961	GaN	Ultra Green	Water Clear	525	3.2	3.8	4500	25
L-3U4GD	LJR3GD960	GaP	Yellow Green	Green Diffused	570	2.2	2.6	20	110
L-3U4YD	LJR3YD959	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	15	110
L-3U4ED	LJR3ED958	GaAsP	Orange	Red Diffused	628	2.1	2.6	25	110
L-3U4VG3C	LJR3VG3C957	GaAlInP	Super Yellow Green	Water Clear	572	2.0	2.6	440	25
L-3U4UB5C	LJR3UB5C956	GaN	Blue	Water Clear	470	3.2	3.8	2500	25

L-403XX -2.0x5.0x7.0mm RECTANGULAR LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-403ED-E610	LJS5AD955	GaAsP	Amber	Orange Diffused	605	2.1	2.6	8	120
L-403GD	LJS5GD954	GaP	Yellow Green	Green Diffused	570	2.2	2.6	6	120
L-403YD	LJS5YD953	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	5	120
L-403ED	LJS5ED952	GaAsP	Orange	Red Diffused	628	2.1	2.6	7	120
L-403SRD	LJS5SRD951	GaAlAs	Red	Red Diffused	640	1.8	2.2	15	120

L-413XX -2.0x5.0x7.0mm RECTANGULAR LED LAMP

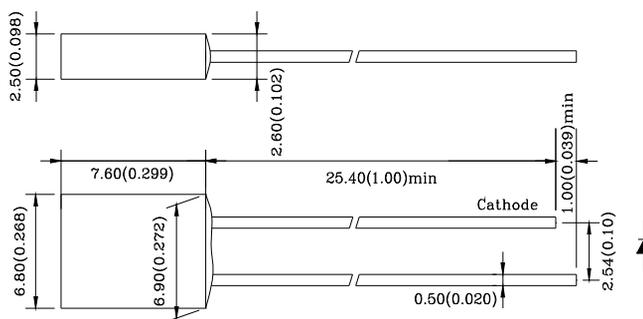


Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-413HURC	LJS5HURC950	GaAlInP	Super Red	Water Clear	633	2.0	2.6	250	80
L-413GD	LJS5GD949	GaP	Yellow Green	Green Diffused	570	2.2	2.6	2.5	150
L-413YD	LJS5YD948	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	2.5	150
L-413ED	LJS5ED947	GaAsP	Orange	Red Diffused	628	2.1	2.6	3	150
L-413SRD	LJS5SRD946	GaAlAs	Red	Red Diffused	640	1.8	2.2	10	150
L-413VG3C	LJS5VG3C945	GaAlInP	Super Yellow Green	Water Clear	572	2.0	2.6	100	80

LED LAMP

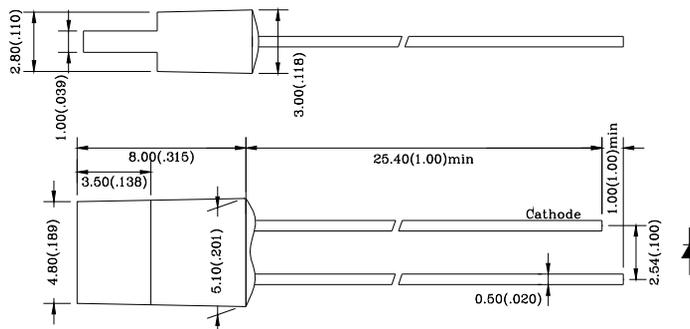
L-423XX -2.5x7.0x7.5mm RECTANGULAR LED LAMP

LED LAMP



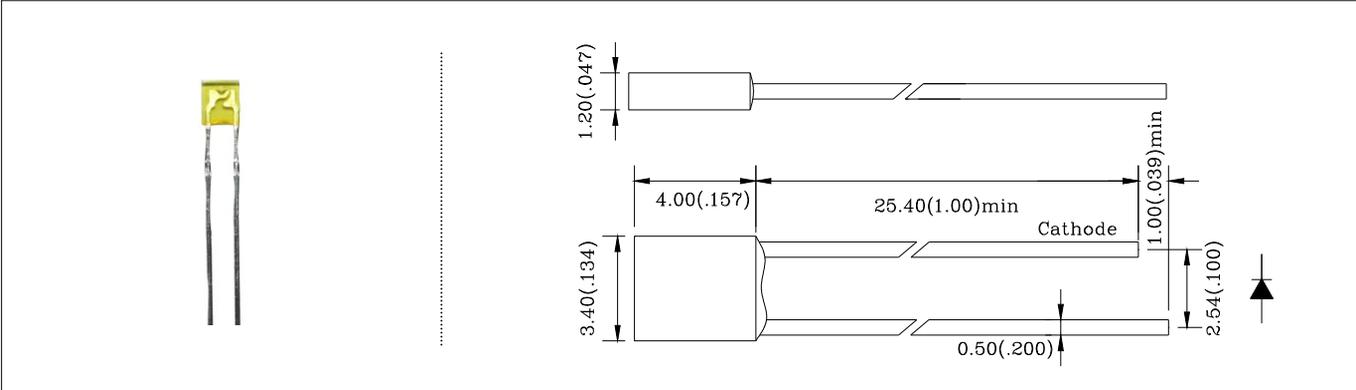
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-423ED-E610	LJS7AD944	GaAsP	Amber	Orange Diffused	605	2.1	2.6	6	110
L-423GD	LJS7GD943	GaP	Yellow Green	Green Diffused	570	2.2	2.6	6	110
L-423YD	LJS7YD942	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	5	110
L-423ED	LJS7ED941	GaAsP	Orange	Red Diffused	628	2.1	2.6	7	110
L-423SRD	LJS7SRD940	GaAlAs	Red	Red Diffused	640	1.8	2.2	18	110

L-443XX -1.0x5.0x8.0mm RECTANGULAR LED LAMP



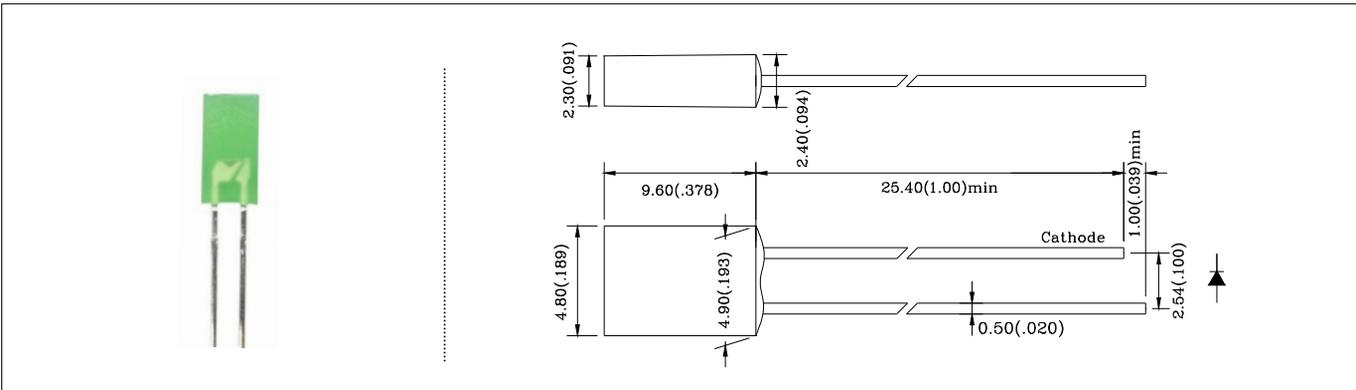
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-443ED-E610	LJS4AD939	GaAsP	Amber	Orange Diffused	620	2.1	2.6	6	120
L-443GD	LJS4GD938	GaP	Yellow Green	Green Diffused	570	2.2	2.6	6	120
L-443YD	LJS4YD937	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	5	120
L-443ED	LJS4ED936	GaAsP	Orange	Red Diffused	628	2.1	2.6	7	120
L-443SRD	LJS4SRD935	GaAlAs	Red	Red Diffused	640	1.8	2.2	15	120

L-454XX -1.2x3.4x4.0mm RECTANGULAR LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-454ED-E610	LJS3AD934	GaAsP	Amber	Orange Diffused	605	2.1	2.6	3	150
L-454GD	LJS3GD933	GaP	Yellow Green	Green Diffused	570	2.2	2.6	2.5	150
L-454YD	LJS3YD932	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	2	150
L-454ED	LJS3ED931	GaAsP	Orange	Red Diffused	628	2.1	2.6	3	150
L-454SRD	LJS3SRD930	GaAlAs	Red	Red Diffused	640	1.8	2.2	10	150

L-463XX -2.0x4.8x9.6mm RECTANGULAR LED LAMP

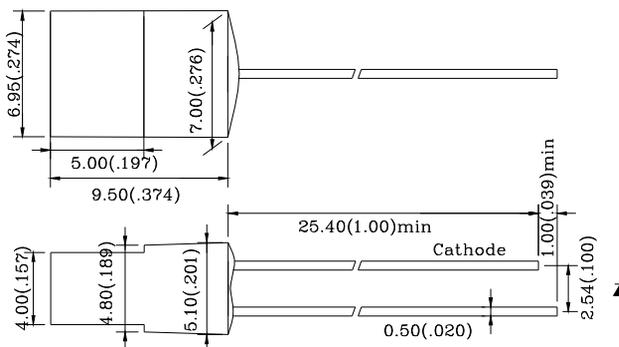


Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-463ED-E610	LJS5AD929	GaAsP	Amber	Orange Diffused	605	2.1	2.6	6	120
L-463GD	LJS5GD928	GaP	Yellow Green	Green Diffused	570	2.2	2.6	6	120
L-463YD	LJS5YD927	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	5	120
L-463ED	LJS5ED926	GaAsP	Orange	Red Diffused	628	2.1	2.6	7	120
L-463SRD	LJS5SRD925	GaAlAs	Red	Red Diffused	640	1.8	2.2	15	120

LED LAMP

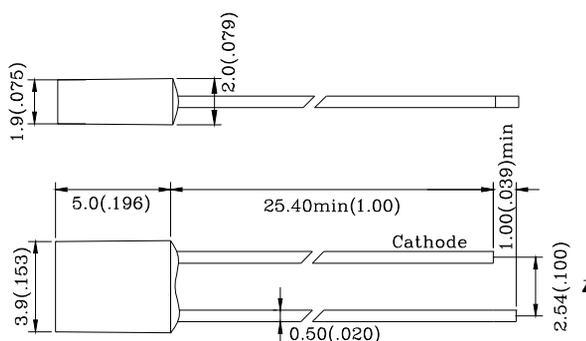
L-473XX -4.0x7.0x9.5mm RECTANGULAR LED LAMP

LED LAMP



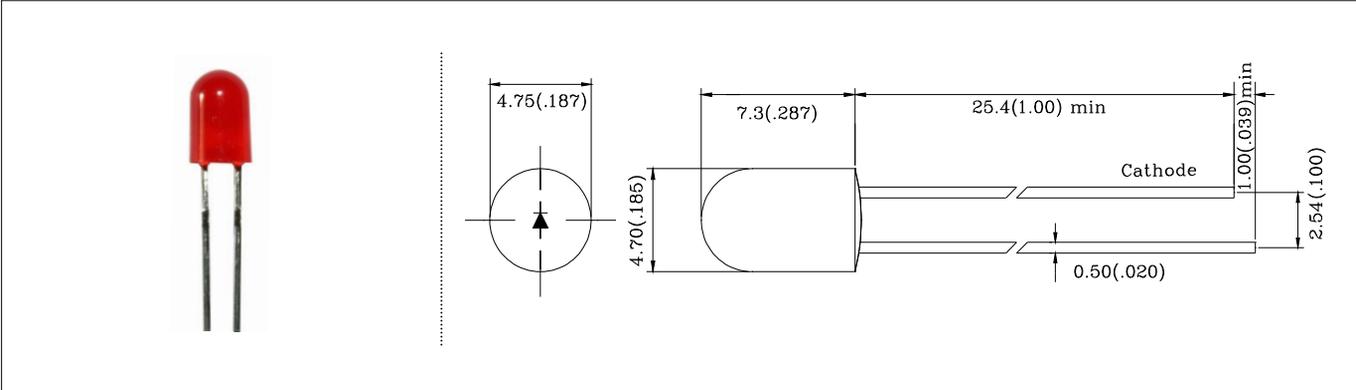
Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-473ED-E610	LJS4AD926	GaAsP	Amber	Orange Diffused	605	2.1	2.6	3	150
L-473GD	LJS4GD925	GaP	Yellow Green	Green Diffused	570	2.2	2.6	2.5	150
L-473YD	LJS4YD924	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	2	150
L-473ED	LJS4ED923	GaAsP	Orange	Red Diffused	628	2.1	2.6	3	150
L-473SRD	LJS4SRD922	GaAlAs	Red	Red Diffused	640	1.8	2.2	10	150

L-4L3XX -2.0x4.0x5.0mm RECTANGULAR LED LAMP



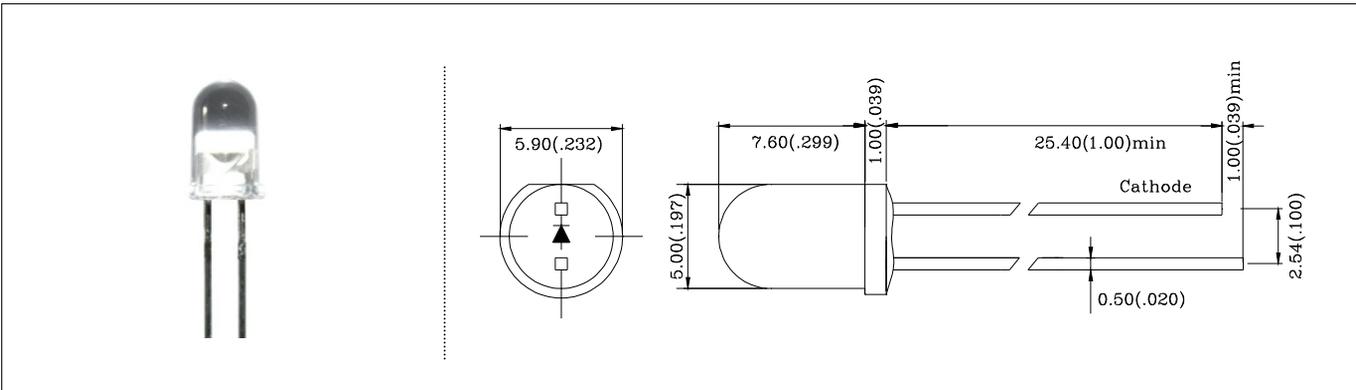
Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-4L3ED-E610	LJS7AD921	GaAsP	Amber	Orange Diffused	605	2.1	2.6	7	120
L-4L3GD	LJS7GD920	GaP	Yellow Green	Green Diffused	570	2.2	2.6	6	120
L-4L3YD	LJS7YD919	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	5	120
L-4L3ED	LJS7ED918	GaAsP	Orange	Red Diffused	628	2.1	2.6	7	120
L-4L3SRD	LJS7SRD917	GaAlAs	Red	Red Diffused	640	1.8	2.2	15	120
L-4L3VG3D	LJS7VG3D916	GaAlInP	Super Yellow Green	Green Diffused	572	2.0	2.6	15	120

L-503XX -5.0mm Dia. LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-503ED-E610	LJR5AD915	GaAsP	Amber	Orange Diffused	605	2.1	2.6	20	110
L-503GD	LJR5GD914	GaP	Yellow Green	Green Diffused	570	2.2	2.6	20	110
L-503YD	LJR5YD913	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	15	110
L-503ED	LJR5ED912	GaAsP	Orange	Red Diffused	628	2.1	2.6	20	110
L-503SRD	LJR5SRD911	GaAlAs	Red	Red Diffused	640	1.8	2.2	40	110

L-513XX -5.0mm Dia. LED LAMP

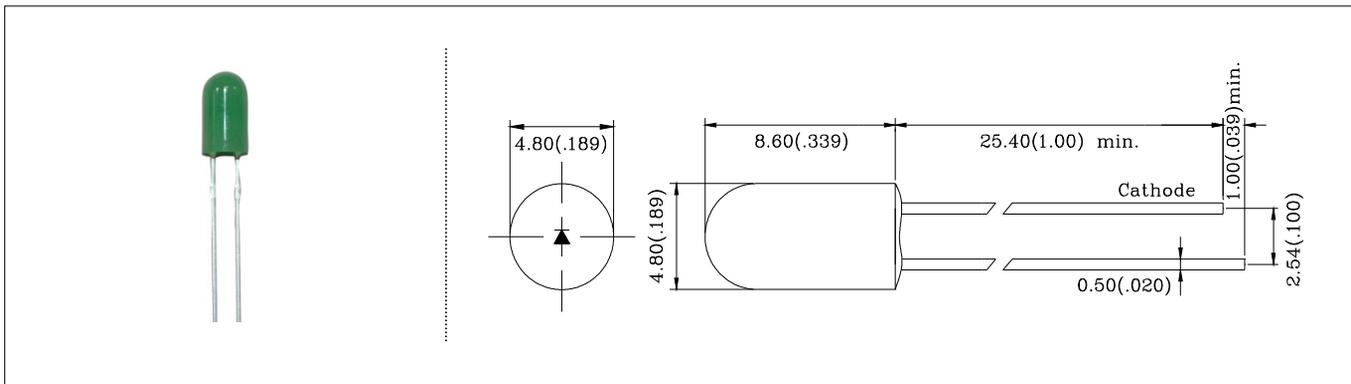


Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-513VE2C	LJR5VE2C910	GaAlInP	Super Orange	Water Clear	626	2.1	2.6	4500	15
L-513VG3C	LJR5VG3C909	GaAlInP	Super Yellow Green	Water Clear	572	2.2	2.6	1700	15
L-513VY5C	LJR5VY5C908	GaAlInP	Super Yellow	Water Clear	587	2.1	2.6	3500	15
L-513VEAC	LJR5VEAC907	GaAlInP	Super Orange	Water Clear	628	2.1	2.6	12000	15
L-5147LPG6C	LJR5LPG6C906	GaInN	Ultra Green	Water Clear	640	1.8	2.2	9000	15

LED LAMP

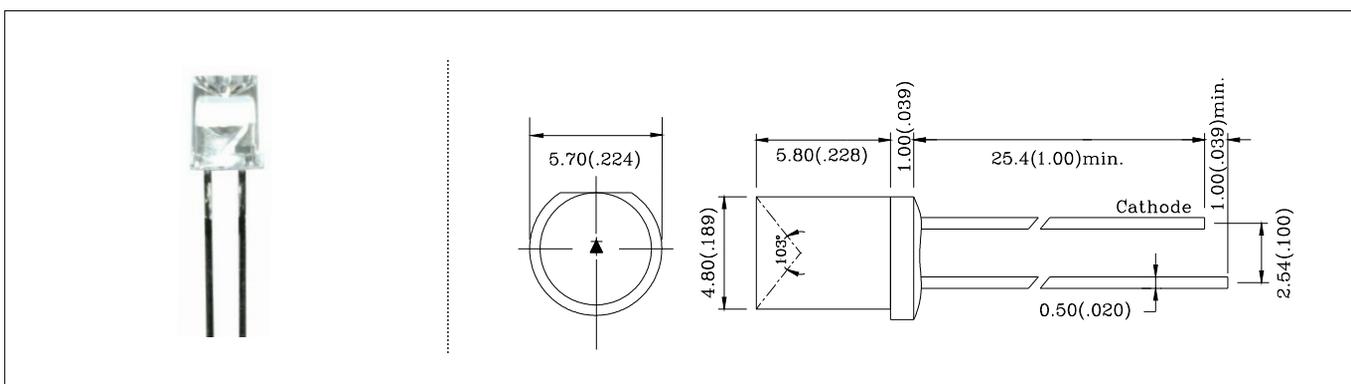
L-523XX -5.0mm Dia. LED LAMP

LED LAMP



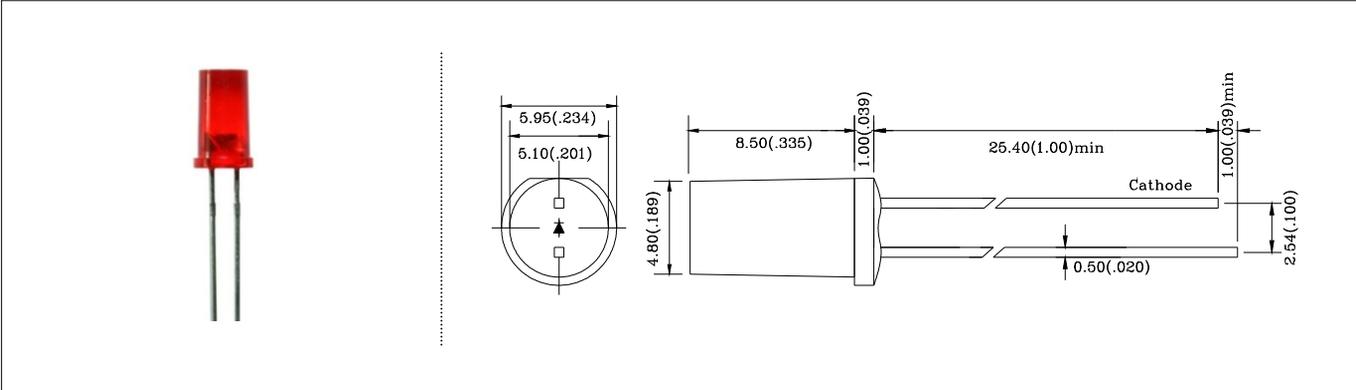
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-523ED-E610	LJR5AD904	GaAsP	Amber	Orange Diffused	605	2.1	2.6	20	110
L-523GD	LJR5GD903	GaP	Yellow Green	Green Diffused	570	2.2	2.6	20	110
L-523YD	LJR5YD902	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	15	110
L-523ED	LJR5ED901	GaAsP	Orange	Red Diffused	628	2.1	2.6	20	110
L-523SRD	LJR5SRD900	GaAlAs	Red	Red Diffused	640	1.8	2.2	40	110

L-553XX -5.0mm Dia. CYLINDRICAL LED LAMP



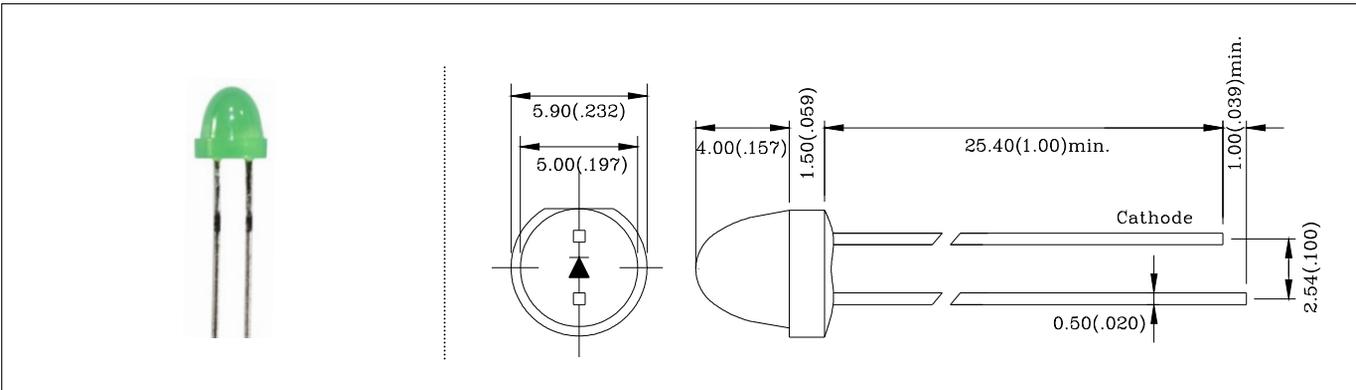
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-553ED-E610	LJR5AD899	GaAsP	Amber	Orange Diffused	605	2.1	2.6	3	150
L-553GD	LJR5GD898	GaP	Yellow Green	Green Diffused	570	2.2	2.6	1.2	150
L-553YD	LJR5YD897	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	1	150
L-553ED	LJR5ED896	GaAsP	Orange	Red Diffused	628	2.1	2.6	3	150
L-553SRD	LJR5SRD895	GaAlAs	Red	Red Diffused	640	1.8	2.2	3	150
L-5547UB5C	LJR5UB5C894	GaN	Blue	Water Clear	470	3.2	3.8	150	120

L-573XX -5.0mm Dia. CYLINDRICAL LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-573ED-E610	LJR5AD893	GaAsP	Amber	Orange Diffused	605	2.1	2.6	8	150
L-573GD	LJR5GD892	GaP	Yellow Green	Green Diffused	570	2.2	2.6	5	150
L-573YD	LJR5YD891	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	4	150
L-573ED	LJR5ED890	GaAsP	Orange	Red Diffused	628	2.1	2.6	8	150
L-573SRD	LJR5SRD889	GaAlAs	Red	Red Diffused	640	1.8	2.2	12	150

L-593XX -5.0mm Dia. LED LAMP

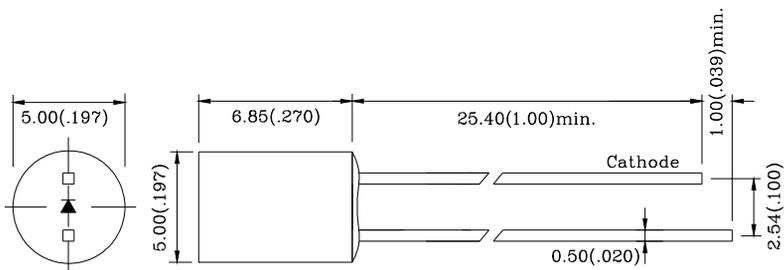


Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-593ED-E610	LJR5AD888	GaAsP	Amber	Orange Diffused	605	2.1	2.6	25	100
L-593GD	LJR5GD887	GaP	Yellow Green	Green Diffused	570	2.2	2.6	20	100
L-593YD	LJR5YD886	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	15	100
L-593ED	LJR5ED885	GaAsP	Orange	Red Diffused	628	2.1	2.6	25	100
L-593SRD	LJR5SRD884	GaAlAs	Red	Red Diffused	640	1.8	2.2	40	100
L-5947UB5D	LJR5UB5D883	GaN	Blue	Blue Diffused	470	3.2	3.8	200	100

LED LAMP

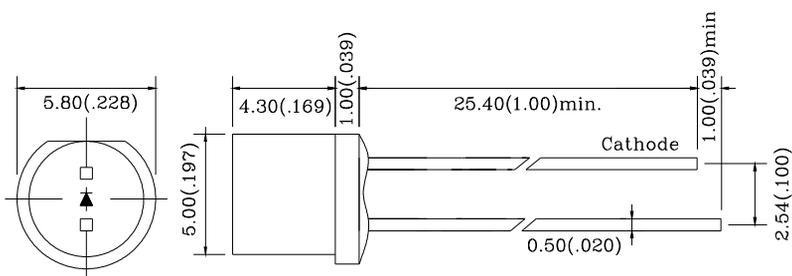
L-5C3XX -5.0mm Dia. CYLINDRICAL LED LAMP

LED LAMP



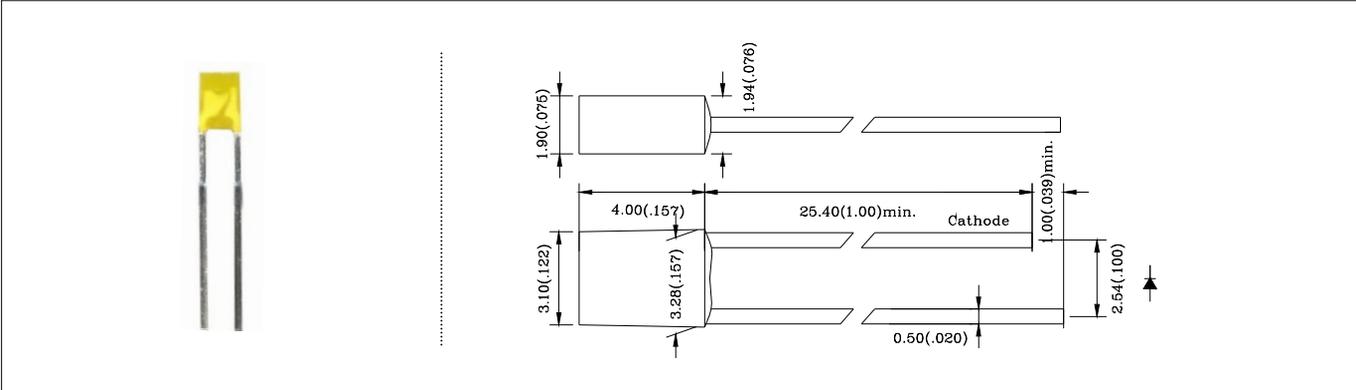
Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-5C3VG3D	LJR5VG3D882	GaAlInP	Super Yellow Green	Green Diffused	572	2.1	2.6	10	150
L-5C3GD	LJR5GD881	GaP	Yellow Green	Green Diffused	570	2.2	2.6	5	150
L-5C3YD	LJR5YD880	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	4	150
L-5C3ED	LJR5ED879	GaAsP	Orange	Red Diffused	628	2.1	2.6	6	150
L-5C3SRD	LJR5SRD878	GaAlAs	Red	Red Diffused	640	1.8	2.2	10	150

L-5N3XX -5.0mm Dia. CYLINDRICAL LED LAMP



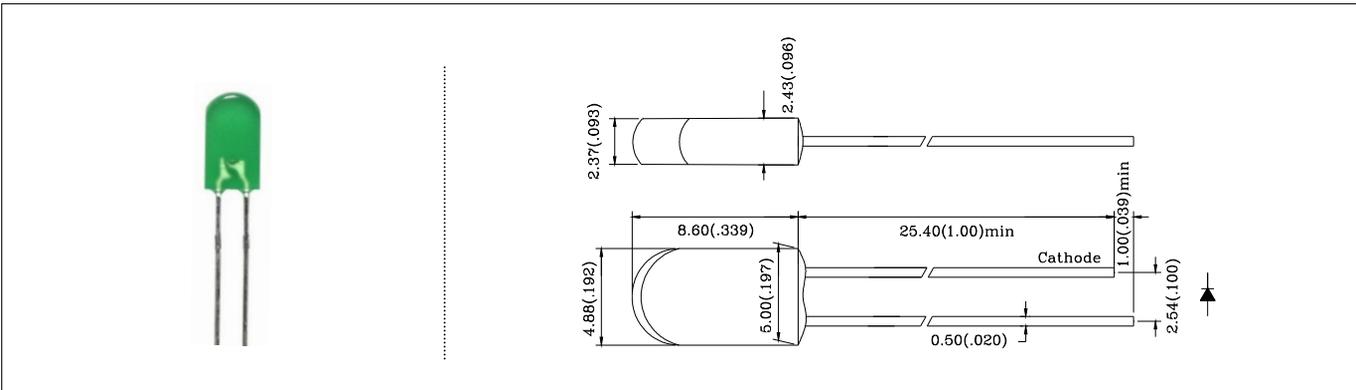
Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-5N3GD	LJR5GD874	GaP	Yellow Green	Green Diffused	570	2.2	2.6	5	150
L-5N3YD	LJR5YD873	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	4	150
L-5N3ED	LJR5ED872	GaAsP	Orange	Red Diffused	628	2.1	2.6	6	150
L-5N3SRD	LJR5SR5D871	GaAlAs	Red	Red Diffused	640	1.8	2.2	10	150
L-5N47LPG6C	LJR5LPG6C870	GaInN	Ultra Green	Water Clear	525	3.2	3.8	1000	100
L-5N47UB5C	LJR5UB5C869	GaInN	Blue	Water Clear	470	3.2	3.8	500	100

L-604XX -1.9x3.1x4.0mm RECTANGULAR LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-604ED-E610	LJS3AD868	GaAsP	Amber	Orange Diffused	605	2.1	2.6	3	150
L-604GD	LJS3GD867	GaP	Yellow Green	Green Diffused	570	2.2	2.6	2.5	150
L-604YD	LJS3YD866	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	2	150
L-604ED	LJS3ED865	GaAsP	Orange	Red Diffused	628	2.1	2.6	3	150
L-604SRD	LJS3SRD864	GaAlAs	Red	Red Diffused	640	1.8	2.2	10	150

L-614XX -2.4x4.9x8.6mm TOMBSTONE Type LED LAMP

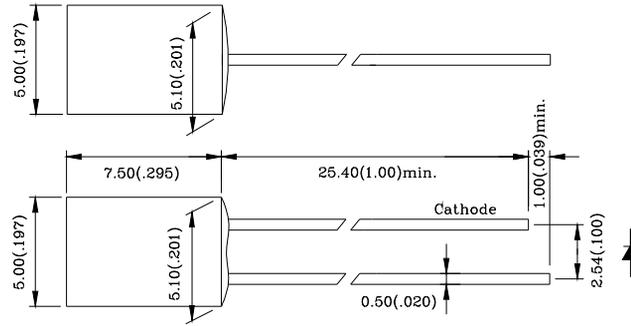


Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-614ED-610	LJS5AD863	GaAsP	Amber	Orange Diffused	605	2.1	2.6	4	170
L-614GD	LJS5GD862	GaP	Yellow Green	Green Diffused	570	2.2	2.6	3	170
L-614YD	LJS5YD861	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	2	170
L-614ED	LJS5ED860	GaAsP	Orange	Red Diffused	628	2.1	2.6	4	170
L-614SRD	LJS5SRD859	GaAlAs	Red	Red Diffused	640	1.8	2.2	20	170
L-614LY1C	LJS5LY1C858	GaAlInP	Super Yellow	Water Clear	587	2.1	2.6	120	120

LED LAMP

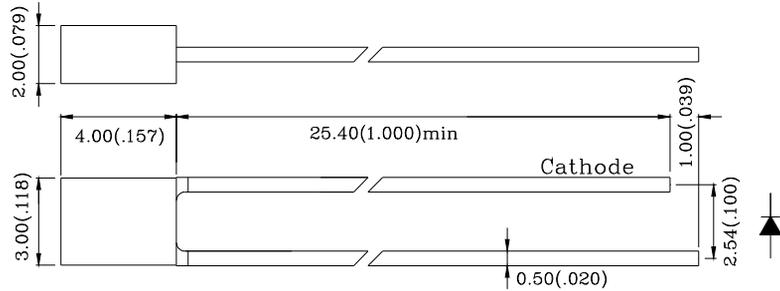
L-663XX -5.0x5.0x7.0mm RECTANGULAR LED LAMP

LED LAMP



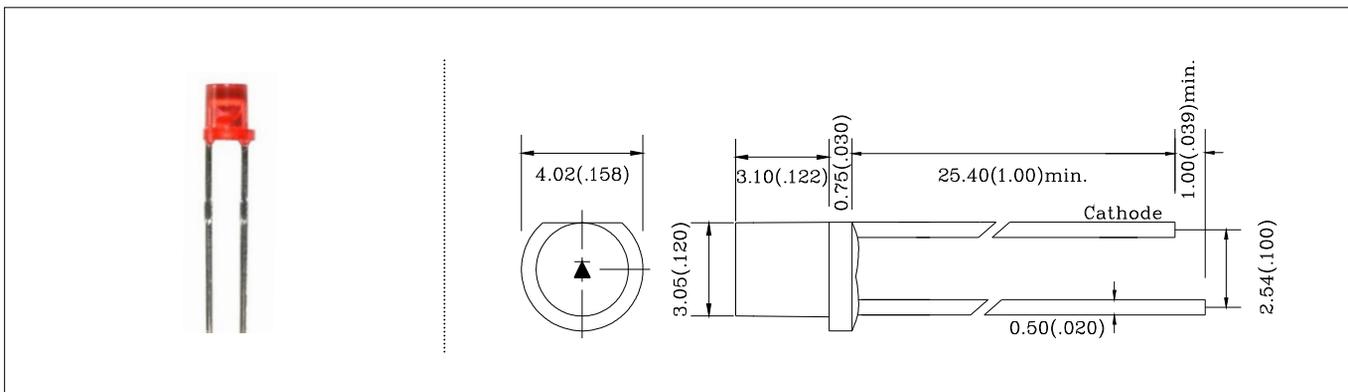
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-663HURC	LJS4HURC857	GaAlInP	Super Red	Water Clear	633	2.0	2.6	300	70
L-663GD	LJS4GD856	GaP	Yellow Green	Green Diffused	570	2.2	2.6	7	150
L-663YD	LJS4YD855	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	4	150
L-663ED	LJS4ED854	GaAsP	Orange	Red Diffused	628	2.1	2.6	10	150
L-663SRD	LJS4SRD853	GaAlAs	Red	Red Diffused	640	1.8	2.2	30	150

L-6U4XX -2.0x3.0x4.0mm RECTANGULAR LED LAMP



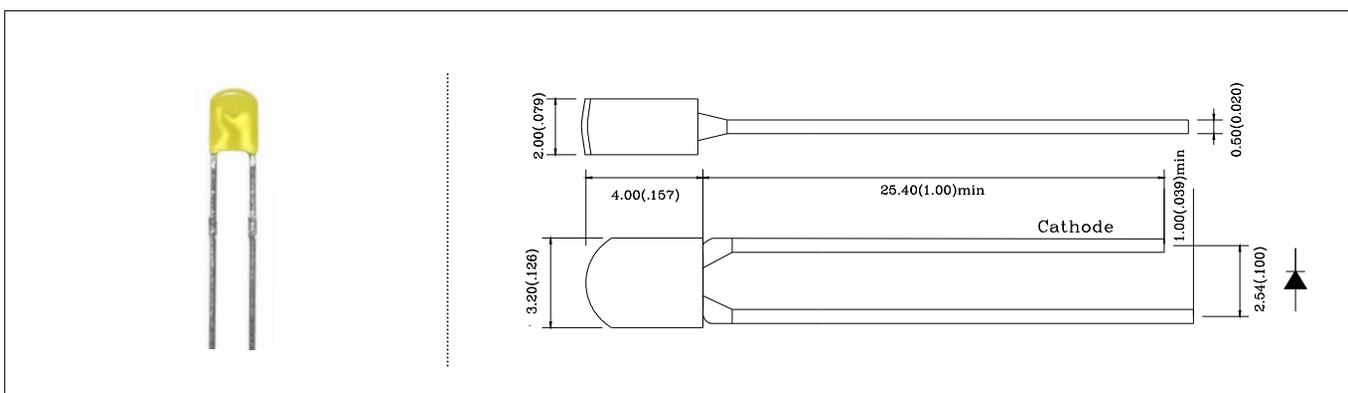
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-6U4ED-E610	LJS3AD852	GaAsP	Amber	Orange Diffused	605	2.1	2.6	10	150
L-6U4GD	LJS3GD851	GaP	Yellow Green	Green Diffused	570	2.2	2.6	7	150
L-6U4YD	LJS3YD850	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	4	150
L-6U4ED	LJS3ED849	GaAsP	Orange	Red Diffused	628	2.1	2.6	10	150
L-6U4SRD	LJS3SRD848	GaAlAs	Red	Red Diffused	640	1.8	2.2	30	150
L-6U4VG3D	LJS3VG3D847	GaAlInP	Super Yellow Green	Green Diffused	572	2.0	2.6	40	150

L-6V4XX -3.1mm Dia CYLINDRICAL LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-6V4HURC	LJR3HURC846	GaAlInP	Super Red	Water Clear	633	2.0	2.6	180	80
L-6V4GD	LJR3GD845	GaP	Yellow Green	Green Diffused	570	2.2	2.6	12	110
L-6V4YD	LJR3YD844	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	10	110
L-6V4ED	LJR3ED843	GaAsP	Orange	Red Diffused	628	2.1	2.6	15	110
L-6V4VG3C	LJR3VG3C842	GaAlInP	Super Yellow Green	Water Clear	572	2.2	2.6	200	80

L-6X4XX -2.0x3.2x4.0mm RECTANGULAR LED LAMP

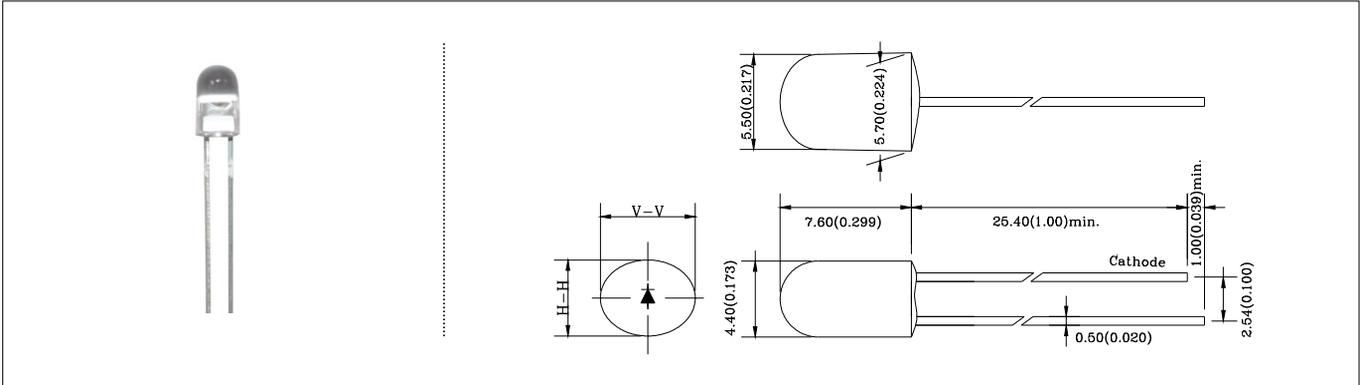


Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-6X4ED-610	LJS4AD841	GaAsP	Amber	Orange Diffused	605	2.1	2.6	16	150
L-6X4GD	LJS4GD840	GaP	Yellow Green	Green Diffused	570	2.2	2.6	15	150
L-6X4YD	LJS4YD839	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	10	150
L-6X4ED	LJS4ED838	GaAsP	Orange	Red Diffused	628	2.1	2.6	18	150
L-6X4SRD	LJS4SRD837	GaAlAs	Red	Red Diffused	640	1.8	2.2	30	150

LED LAMP

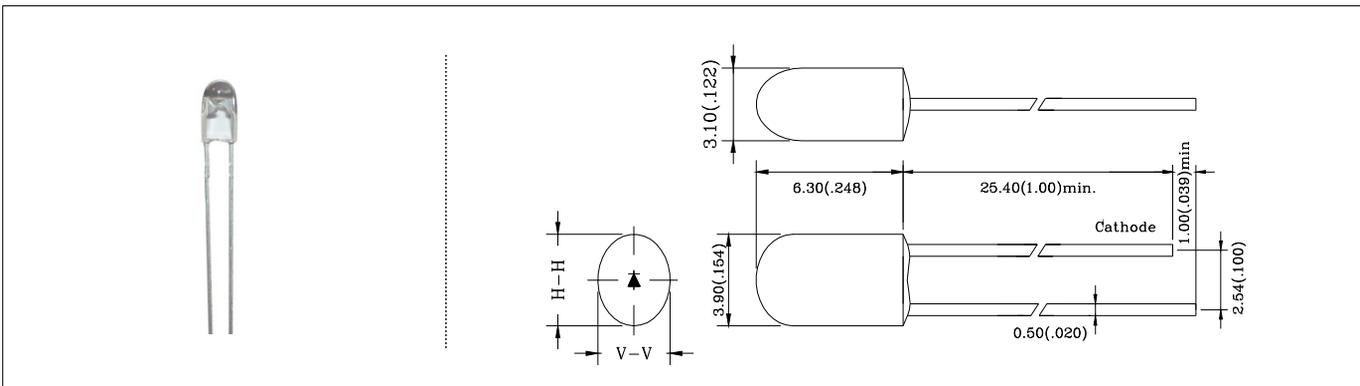
L-763XX -5.5x4.0mm Dia. ELLIPSE LED LAMP

LED LAMP



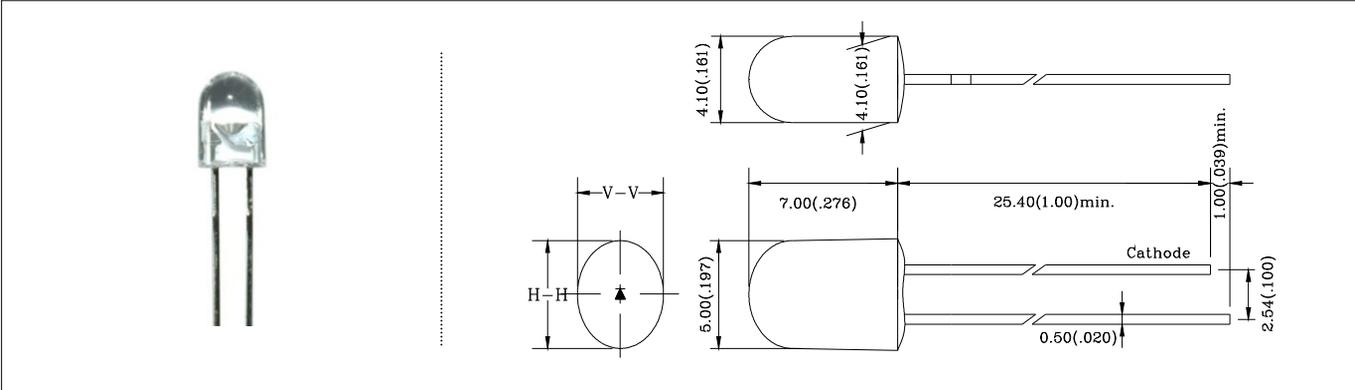
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-763HURC	LJE5HURC836	GaAlInP	Super Red	Water Clear	633	2.0	2.6	800	75/40
L-763VEAC	LJE5VEAC835	GaAlInP	Super Orange	Water Clear	624	2.2	2.6	2000	75/40
L-763VYAC	LJE5VYAC834	GaAlInP	Super Yellow	Water Clear	587	2.1	2.6	2000	75/40
L-763VG3C	LJE5VG3C833	GaAlInP	Super Yellow Green	Water Clear	572	2.1	2.6	400	75/40
L-763UB5C	LJE5UB5C832	GaInN	Blue	Water Clear	470	3.2	3.8	1700	75/40

L-7J4XX -3.9x3.1mm Dia. ELLIPSE LED LAMP



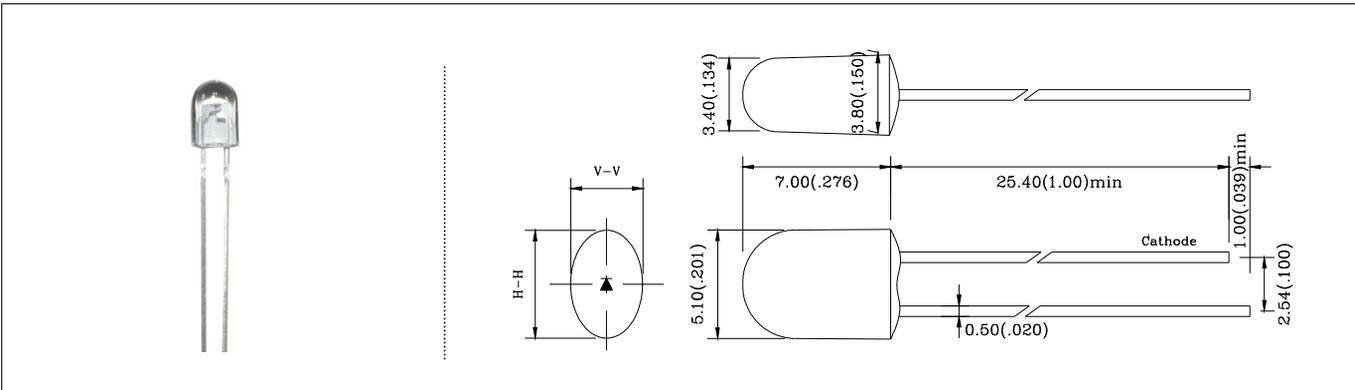
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-7J4HURC	LJE4HURC833	GaAlInP	Super Red	Water Clear	633	2.0	2.6	900	60/35
L-7J4VEAC	LJE4VEAC832	GaAlInP	Super Orange	Water Clear	624	2.2	2.6	1500	60/35
L-7J4VYAC	LJE4VYAC831	GaAlInP	Super Yellow	Water Clear	587	2.1	2.6	1500	60/35
L-7J4VG3C	LJE4VG3C830	GaAlInP	Super Yellow Green	Water Clear	572	2.1	2.6	400	60/35
L-7J4UB5C	LJE4UB5C829	GaInN	Blue	Water Clear	470	3.2	3.8	2000	60/35

L-7Q3XX -5.0x4.0mm Dia. ELLIPSE LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λD (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-7Q3HURC	LJE5HURC828	GaAlInP	Super Red	Water Clear	633	2.0	2.6	600	45/25
L-7Q3VEAC	LJE5VEAC827	GaAlInP	Super Orange	Water Clear	624	2.2	2.6	2500	45/25
L-7Q3VYAC	LJE5VYAC826	GaAlInP	Super Yellow	Water Clear	587	2.1	2.6	2500	45/25
L-7Q3VG3C	LJE5VG3C825	GaAlInP	Super Yellow Green	Water Clear	572	2.1	2.6	800	45/25
L-7Q3UB5C	LJE5UB5C824	GaInN	Blue	Water Clear	470	3.2	3.8	1700	45/25

L-7R3XX -5.1x3.4mm Dia. ELLIPSE LED LAMP

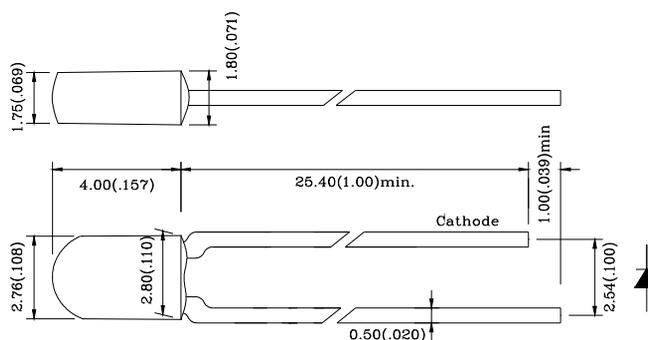


Part No	Ref. PN	Chip		Lens Color	Wave length λD (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-7R3HURC	LJE5HURC823	GaAlInP	Super Red	Water Clear	633	2.0	2.6	300	70/30
L-7R3VEXC	LJE5VEXC822	GaAlInP	Super Orange	Water Clear	624	2.2	2.6	1800	70/30
L-7R3VYXC	LJE5VYXC821	GaAlInP	Super Yellow	Water Clear	587	2.1	2.6	1800	70/30
L-7R3VG3C	LJE5VG3C820	GaAlInP	Super Yellow Green	Water Clear	572	2.1	2.6	400	70/30
L-7R3UB5C	LJE5UB5C819	GaInN	Blue	Water Clear	470	3.5	3.8	1500	70/30

LED LAMP

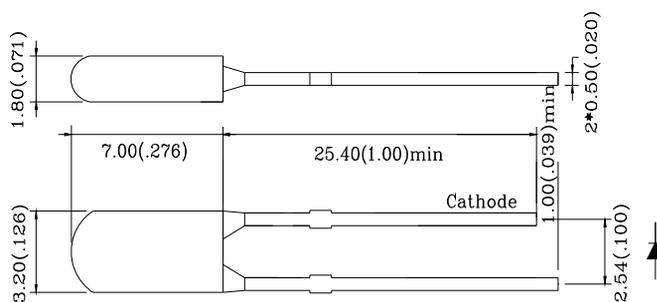
L-7T4XX -1.8x2.8x4.0mm RECTANGULAR LED LAMP

LED LAMP



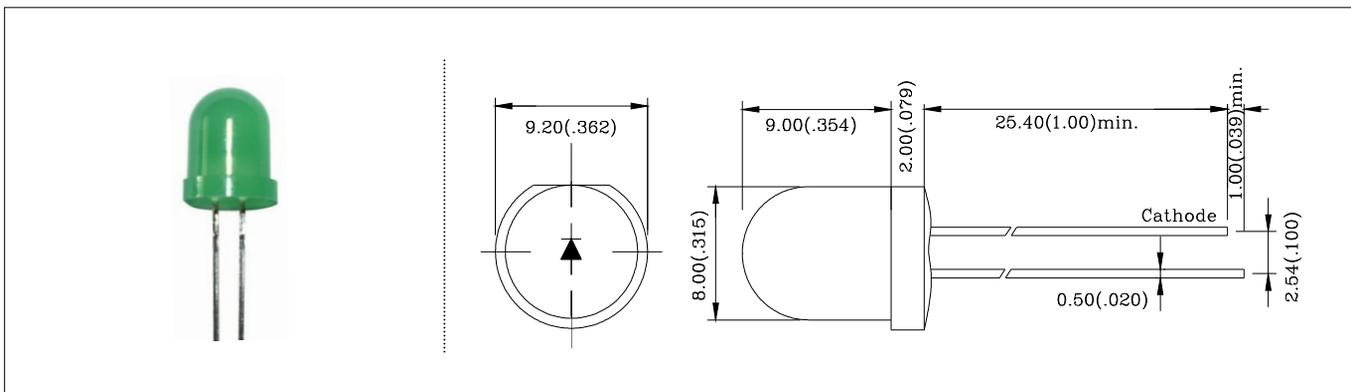
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-7T4HURC	LJS3HURC818	GaAlInP	● Super Red	Water Clear	633	2.0	2.6	300	100
L-7T4GD	LJS3GD817	GaP	● Yellow Green	Green Diffused	570	2.2	2.6	10	120
L-7T4YD	LJS3YD816	GaAsP	● Yellow	Yellow Diffused	587	2.1	2.6	6	120
L-7T4ED	LJS3ED815	GaAsP	● Orange	Red Diffused	628	2.1	2.6	15	120
L-7T4SRD	LJS3SRD814	GaAlAs	● Red	Red Diffused	640	1.8	2.2	30	120

L-7X4XX -2.0x3.2x7.0mm RECTANGULAR LED LAMP



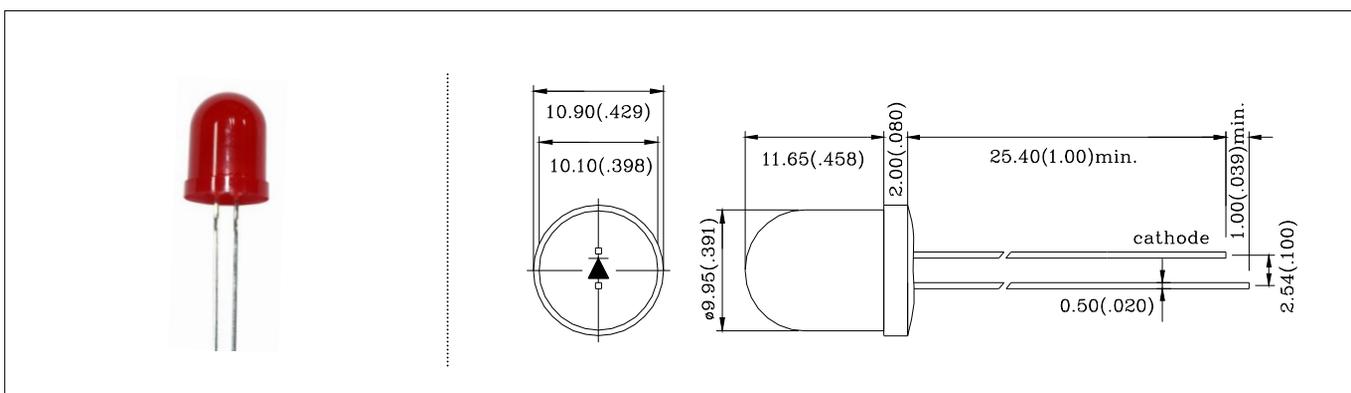
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-7X4ED-E610	LJS3AD813	GaAsP	● Amber	Orange Diffused	605	2.1	2.6	10	150
L-7X4GD	LJS3GD812	GaP	● Yellow Green	Green Diffused	570	2.2	2.6	7	150
L-7X4YD	LJS3YD811	GaAsP	● Yellow	Yellow Diffused	587	2.1	2.6	4	150
L-7X4ED	LJS3ED810	GaAsP	● Orange	Red Diffused	628	2.1	2.6	10	150
L-7X4SRD	LJS3SRD809	GaAlAs	● Red	Red Diffused	640	1.8	2.2	25	150
L-7X4VG3D	LJS3VG3D808	GaAlInP	● Super Yellow Green	Green Diffused	572	2.0	2.6	25	150

L-813XX -8.0mm Dia. LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-813HURC	LJR8HURC807	GaAlInP	Super Red	Water Clear	633	2.0	2.6	800	40
L-813GD	LJR8GD806	GaP	Yellow Green	Green Diffused	570	2.2	2.6	5	150
L-813YD	LJR8YD805	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	3	150
L-813ED	LJR8ED804	GaAsP	Orange	Red Diffused	628	2.1	2.6	10	150
L-813SRD	LJR8SRD803	GaAlAs	Red	Red Diffused	640	1.8	2.2	30	150

L-833XX -10.0mm Dia. LED LAMP

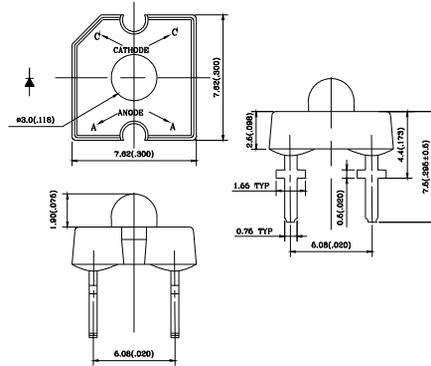


Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-833HURC	LJRAHURC802	GaAlInP	Super Red	Water Clear	633	2.0	2.6	800	40
L-833GD	LJRAGD801	GaP	Yellow Green	Green Diffused	570	2.2	2.6	5	150
L-833YD	LJRAYD800	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	3	150
L-833ED	LJRAED799	GaAsP	Orange	Red Diffused	628	2.1	2.6	10	150
L-833SRD	LJRSRD798	GaAlAs	Red	Red Diffused	640	1.8	2.2	30	150

LED LAMP

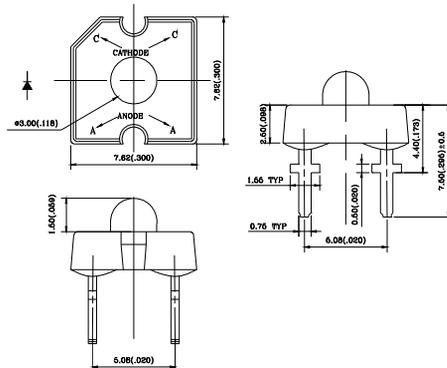
L-9352XX -HIGH POWER LED LAMP

LED LAMP



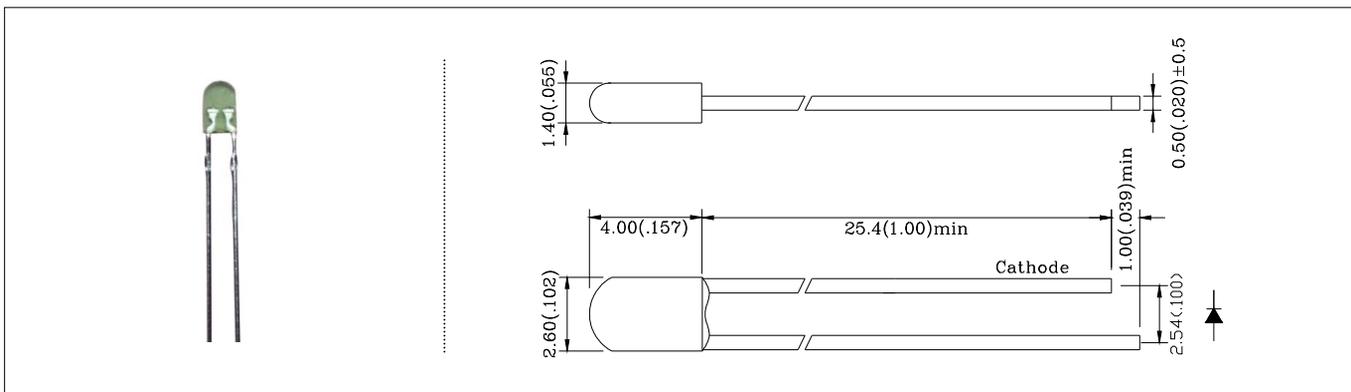
Part No	Ref. PN	Chip		Lens Color	Wave length λD (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-9352HURC	LJF3HURC797	GaAlInP	● Super Red	Water Clear	633	2.0	2.6	1500	40
L-9352VEAC	LJF3VEAC796	GaAlInP	● Super Orange	Water Clear	570	2.2	2.6	2500	40
L-9352VYAC	LJF3VYAC795	GaAlInP	● Super Yellow	Water Clear	587	2.1	2.6	2500	40
L-9352LPG6C	LJF3LPG5C794	GaInN	● Super Green	Water Clear	628	2.1	2.6	3000	40
L-9352UB5C	LJF3UB5C793	GaInN	● Blue	Water Clear	470	3.5	3.8	1500	40

L-9452XX - HIGH POWER LED LAMP



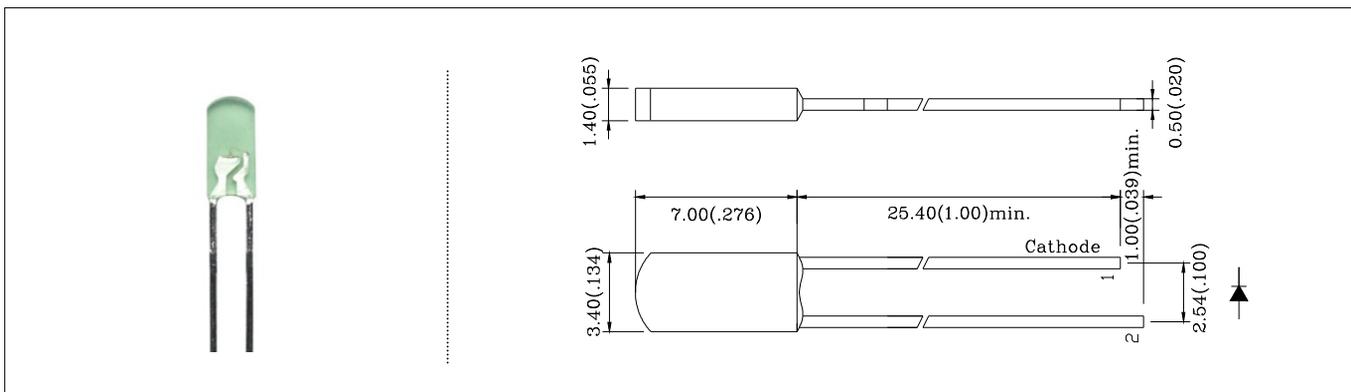
Part No	Ref. PN	Chip		Lens Color	Wave length λD (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-9452HURC	LJF3HURC792	GaAlInP	● Super Red	Water Clear	633	2.0	2.6	900	65
L-9452VEAC	LJF3VEAC791	GaAlInP	● Super Orange	Water Clear	570	2.2	2.6	2000	65
L-9452VYAC	LJF3VYAC790	GaAlInP	● Super Yellow	Water Clear	587	2.1	2.6	2000	65
L-9452LPG6C	LJF3LPG5C789	GaInN	● Super Green	Water Clear	628	2.1	2.6	2500	65
L-9452UB5C	LJF3UB5C788	GaInN	● Blue	Water Clear	470	3.5	3.8	1200	65

L-CR4XX -1.4x2.6x4.0mm RECTANGULAR LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-CR4ED-E610	LJS3AD787	GaAsP	Amber	Orange Diffused	605	2.1	2.6	15	110
L-CR4GD	LJS3GD786	GaP	Yellow Green	Green Diffused	570	2.2	2.6	12	110
L-CR4YD	LJS3YD785	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	10	110
L-CR4ED	LJS3ED784	GaAsP	Orange	Red Diffused	628	2.1	2.6	15	110
L-CR4SRD	LJS3SRD783	GaAlAs	Red	Red Diffused	640	1.8	2.2	30	110

L-CX4XX -1.4x3.4x7.0mm RECTANGULAR LED LAMP

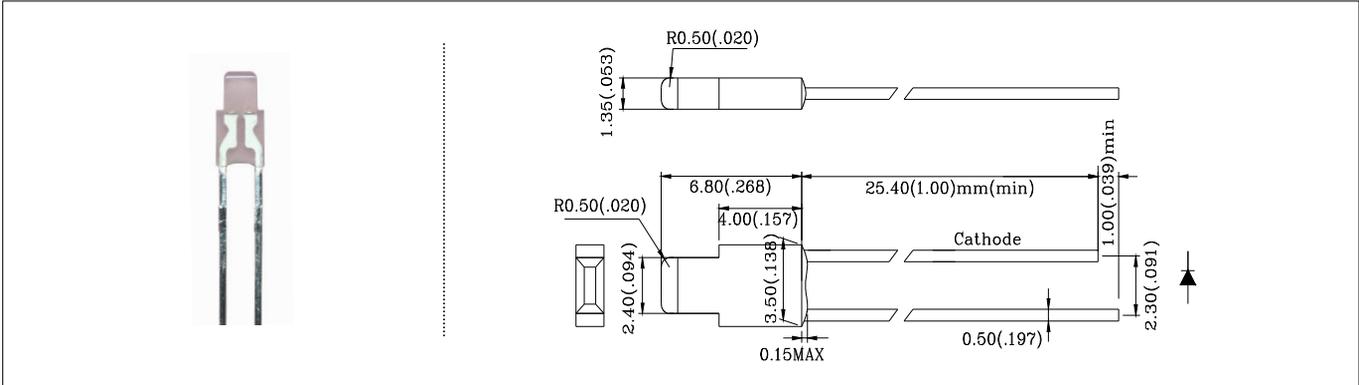


Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-CX4ED-610	LJS3AD782	GaAsP	Amber	Orange Diffused	605	2.1	2.6	10	150
L-CX4GD	LJS3GD781	GaP	Yellow Green	Green Diffused	570	2.2	2.6	7	150
L-CX4YD	LJS3YD780	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	5	150
L-CX4ED	LJS3ED779	GaAsP	Orange	Red Diffused	628	2.1	2.6	10	150
L-CX4SRD	LJS3SRD778	GaAlAs	Red	Red Diffused	640	1.8	2.2	20	150

LED LAMP

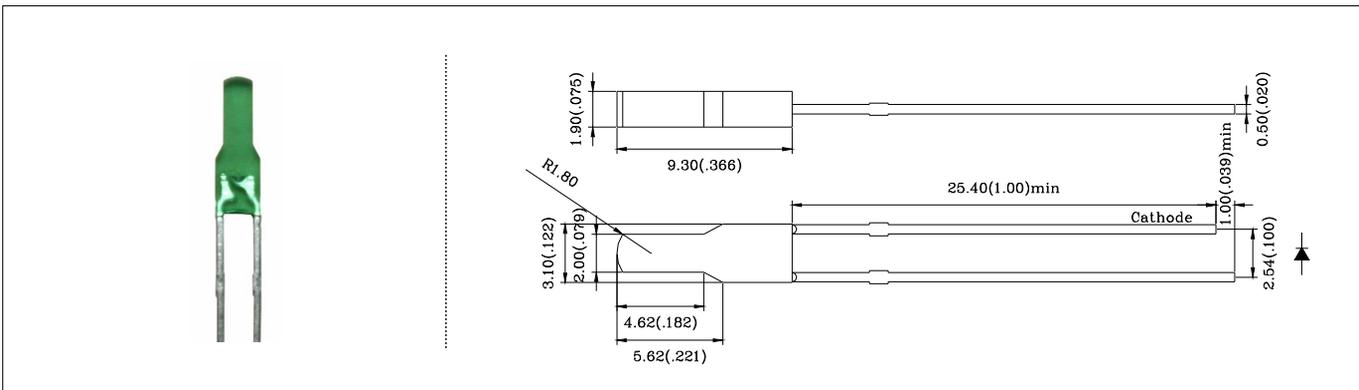
L-CD4XX -1.35x3.5x6.8mm RECTANGULAR LED LAMP

LED LAMP



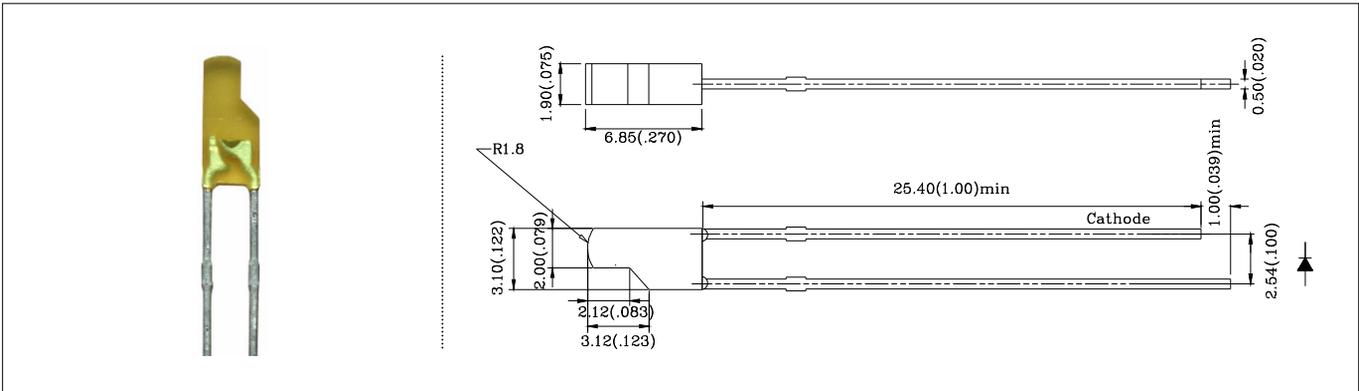
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-CD41GD	LJS2GD777	GaP	Yellow Green	Green Diffused	570	2.2	2.6	15	140
L-CD41YD	LJS2YD776	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	10	140
L-CD41ED-E610	LJS2AD775	GaAsP	Amber	Orange Diffused	605	2.1	2.6	18	140
L-CD41EW	LJS2EW774	GaAsP	Orange	White Diffused	622	2.1	2.6	20	140

L-E14XX -1.9x2.0x9.3mm RECTANGULAR LED LAMP



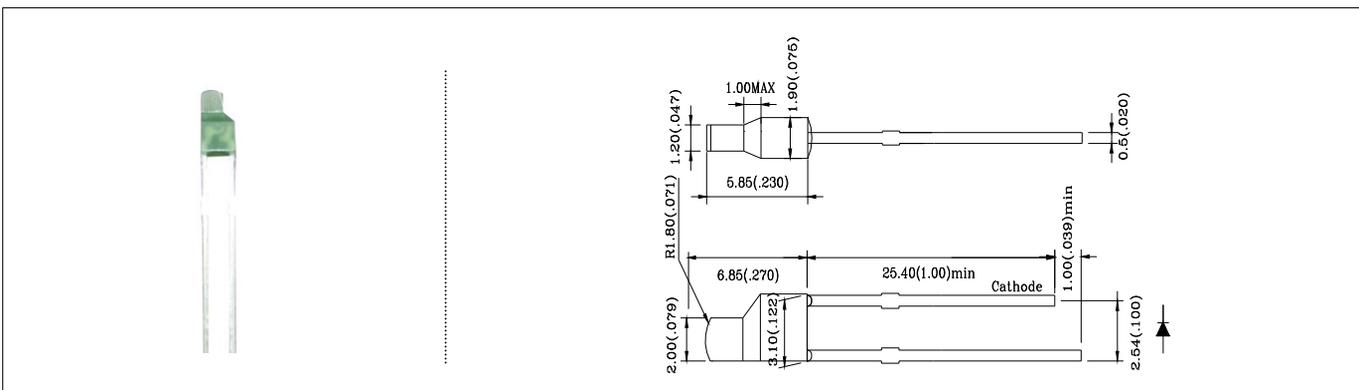
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-E14GD	LJS3GD773	GaP	Yellow Green	Green Diffused	570	2.2	2.6	7	100
L-E14YD	LJS3YD772	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	5	100
L-E14ED-E610	LJS3AD771	GaAsP	Amber	Orange Diffused	605	2.1	2.6	10	100
L-E14EW	LJS3EW770	GaAlAs	Orange	White Diffused	622	2.1	2.6	12	100

L-E24XX -1.9x2.0x6.8mm RECTANGULAR LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-E24GD	LJS3GD699	GaP	Yellow Green	Green Diffused	570	2.1	2.6	7	100
L-E24YD	LJS3YD698	GaAsP	Yellow	Yellow Diffused	587	2.2	2.6	5	100
L-E24ED-E610	LJS3AD697	GaAsP	Amber	Orange Diffused	605	2.1	2.6	9	100
L-E24ED	LJS3ED696	GaAsP	Orange	Red Diffused	628	2.1	2.6	12	100

L-E44XX -1.2x2.0x6.0mm RECTANGULAR LED LAMP

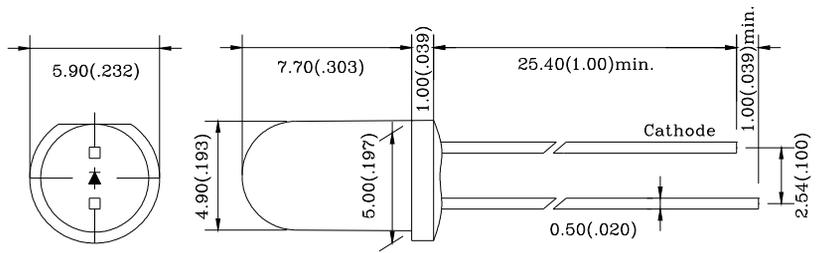


Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-E44GD	LJS2GD695	GaP	Yellow Green	Green Diffused	570	2.2	2.6	10	100
L-E44YD	LJS2YD694	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	8	100
L-E44ED-E610	LJS2AD693	GaAsP	Amber	Orange Diffused	605	2.1	2.6	12	100
L-E44ED	LJS2ED692	GaAsP	Orange	Red Diffused	628	2.1	2.6	15	100

LED LAMP

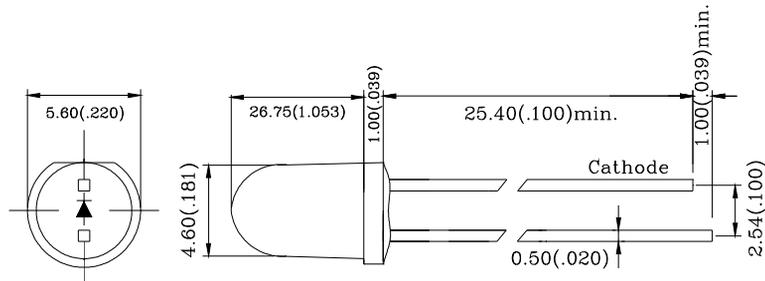
L-5T47XX -5.0mm Dia. LED LAMP

LED LAMP



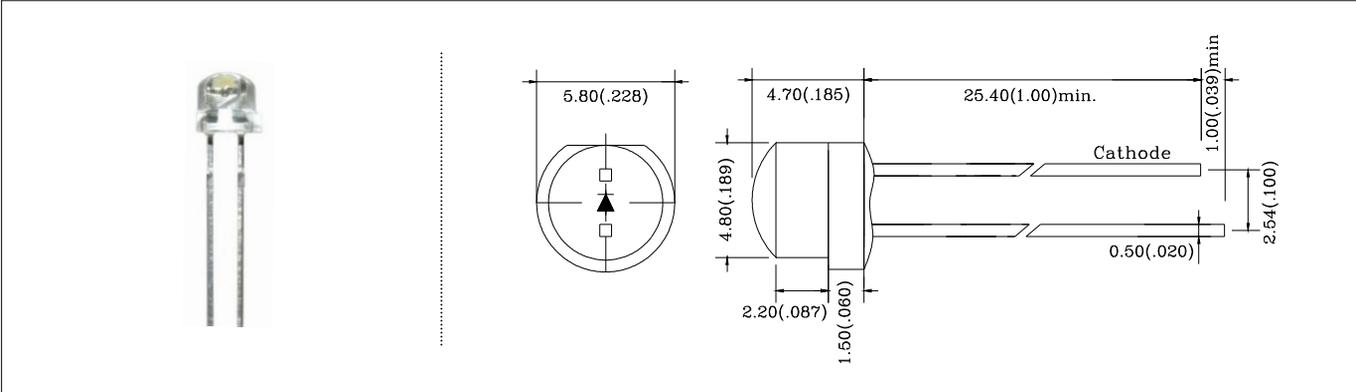
Part No	Ref. PN	Chip		Lens Color	(X,Y)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-5T47UW5C	LJR5UW5C777	GaN	Cool White	Water Clear	X=0.26,Y=0.27	3.5	3.8	5000	15
L-5T47QWC	LJR5QWC776	GaN	Cool White	Water Clear	X=0.21,Y=0.34	3.5	3.8	4500	15
L-5T47UW5C-E	LJR5UW5C775	GaN	Warm White	Water Clear	X=0.44,Y=0.41	3.5	3.8	5000	15
L-5T47UW5C-BL	LJR5UW5C774	GaN	Cool White	Water Clear	X=0.20,Y=0.26	3.5	3.8	5000	15

L-5347XX -5.0mm Dia. LED LAMP



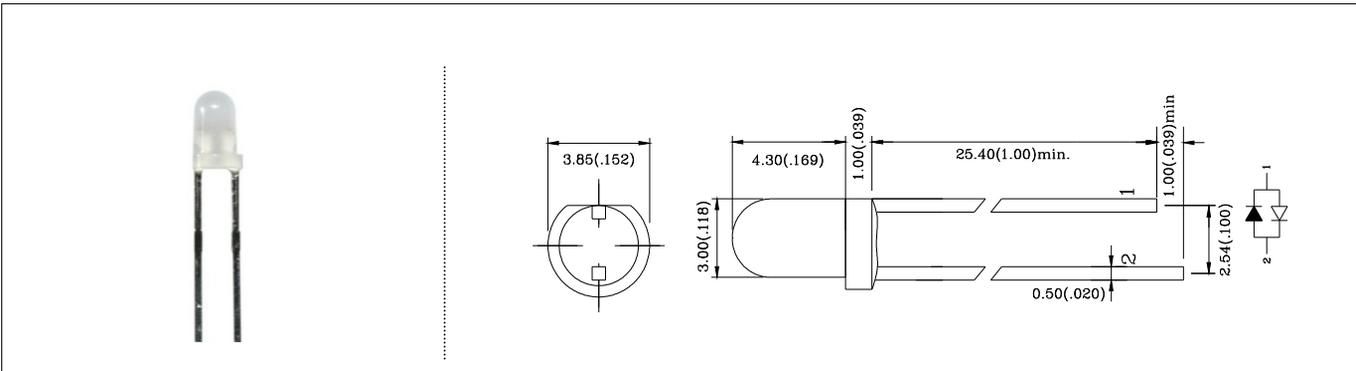
Part No	Ref. PN	Chip		Lens Color	(X,Y)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-5347UW5C	LJR5UW5C773	GaN	Cool White	Water Clear	X=0.26,Y=0.27	3.5	3.8	5500	20
L-5347QWC	LJR5QWC772	GaN	Cool White	Water Clear	X=0.21,Y=0.34	3.5	3.8	5000	20
L-5347UW5C-E	LJR5UW5C771	GaN	Warm White	Water Clear	X=0.44,Y=0.41	3.5	3.8	5500	20
L-5347UW5C-BL	LJR5UW5C770	GaN	Cool White	Water Clear	X=0.20,Y=0.26	3.5	3.8	5500	20

L-5P47XX -5.0mm Dia. LED LAMP



Part No	Ref. PN	Chip		Lens Color	(X,Y)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-5P47UW5C	LJR5UW5C769	GaInN	Cool White	Water Clear	X=0.26,Y=0.27	3.5	3.8	1500	90
L-5P47QWC	LJR5QWC768	GaInN	Cool White	Water Clear	X=0.21,Y=0.34	3.5	3.8	1200	90
L-5P47UW5C-E	LJR5UW5C767	GaInN	Warm White	Water Clear	X=0.44,Y=0.41	3.5	3.8	1500	90
L-5P47UW5C-BL	LJR5UW5C766	GaInN	Cool White	Water Clear	X=0.20,Y=0.26	3.5	3.8	1500	90

L-317XX -3.0mm Dia LED. LAMP

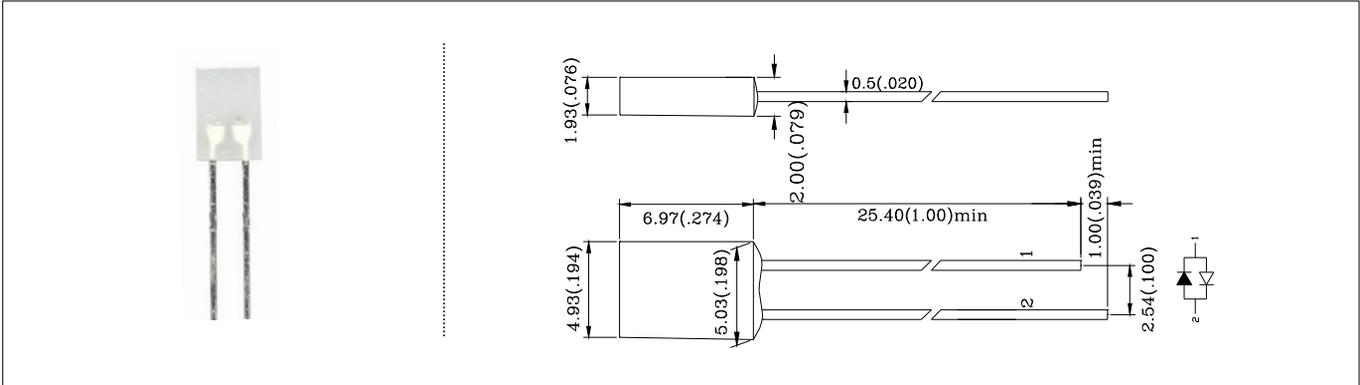


Part No	Ref. PN	Chip		Lens Color	Wave length λD (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-317GYW	LJR3GYW765	GaP	Yellow Green	White Diffused	570	2.2	2.6	18	50
		GaAsP	Yellow					10	
L-317EGW	LJR3EGW764	GaAsP	Orange	White Diffused	622	2.1	2.6	20	50
		GaP	Yellow Green					18	
L-317SRVG3W	LJR3SRVG3W763	GaAlAs	Red	White Diffused	645	1.8	2.6	30	50
		GaInnP	Super Yellow Green					25	

LED LAMP

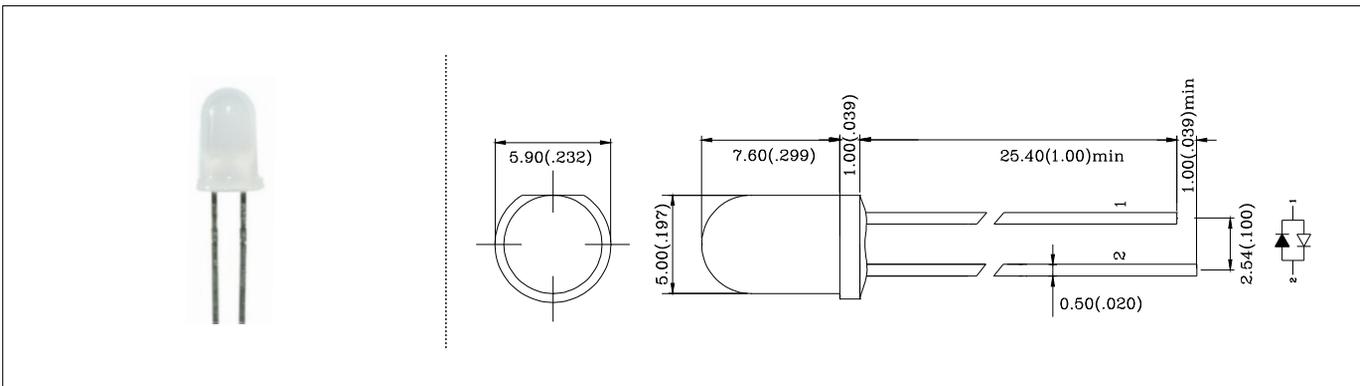
L-407XX -2.0x5.0x7.0mm RECTANGULAR LED LAMP

LED LAMP



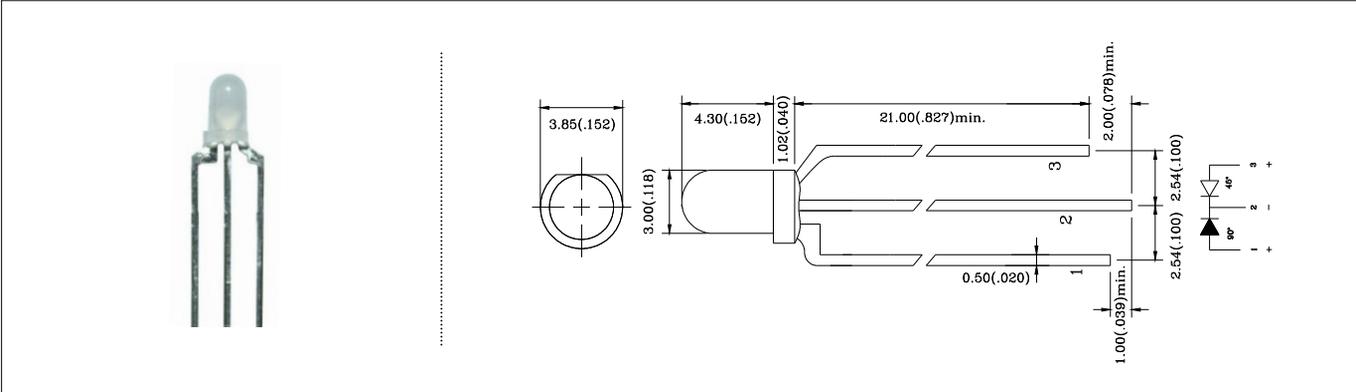
Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-407GYW	LJ55GYW762	GaP	Yellow Green	White Diffused	570	2.2	2.6	6	120
		GaAsP	Yellow		587	2.0	2.6	5	
L-407EGW	LJ55EGW761	GaAsP	Orange	White Diffused	622	2.1	2.6	7	120
		GaP	Yellow Green		570	2.2	2.6	6	

L-517XX -5.0mm Dia. LED LAMP



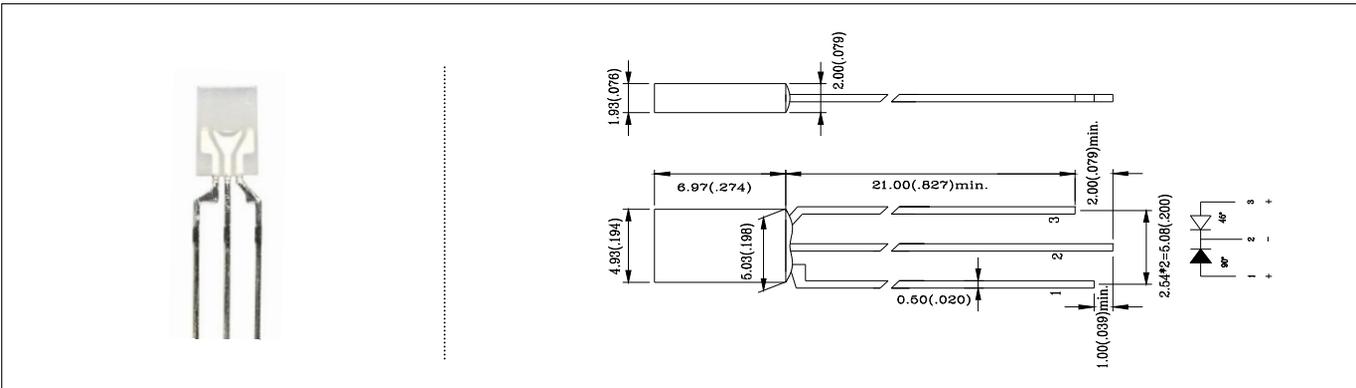
Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-517GYW	LJR5GYW760	GaP	Yellow Green	White Diffused	570	2.2	2.6	15	120
		GaAsP	Yellow		587	2.0	2.6	10	
L-517EGW	LJR5EGW759	GaAsP	Orange	White Diffused	622	2.1	2.6	20	120
		GaP	Yellow Green		570	2.2	2.6	15	
L-517UB5LY5W	LJR5UB5LY5W758	GaInN	Blue	White Diffused	470	3.5	3.8	400	120
		GaAlInP	Super Yellow		592	2.1	2.6	300	

L-319XX -3.0mm Dia. LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λD (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-319GYW	LJR3GYW757	GaP	Yellow Green	White Diffused	570	2.2	2.6	18	60
		GaAsP	Yellow		587	2.0	2.6	15	
L-319EGW	LJR3EGW756	GaAsP	Orange	White Diffused	622	2.1	2.6	30	60
		GaP	Yellow Green		570	2.2	2.6	18	

L-409XX -2.0x5.0x7.0mm RECTANGULAR LED LAMP

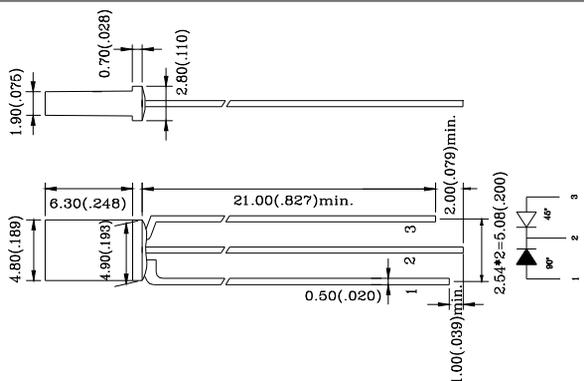


Part No	Ref. PN	Chip		Lens Color	Wave length λD (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-409GYW	LJS5GYW755	GaP	Yellow Green	White Diffused	570	2.2	2.6	6	120
		GaAsP	Yellow		587	2.0	2.6	5	
L-409EGW	LJS5EGW754	GaAsP	Orange	White Diffused	622	2.1	2.6	7	120
		GaP	Yellow Green		570	2.2	2.6	6	
L-409UB5HURW	LJS5UB5HURW753	GaInN	Blue	White Diffused	470	3.5	3.8	50	120
		GaAlInP	Super Red		633	2.0	2.6	40	

LED LAMP

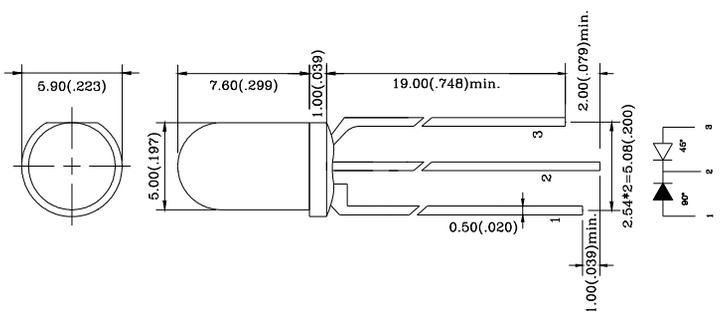
L-419XX -2.0x5.0x7.0mm RECTANGULAR LED LAMP

LED LAMP



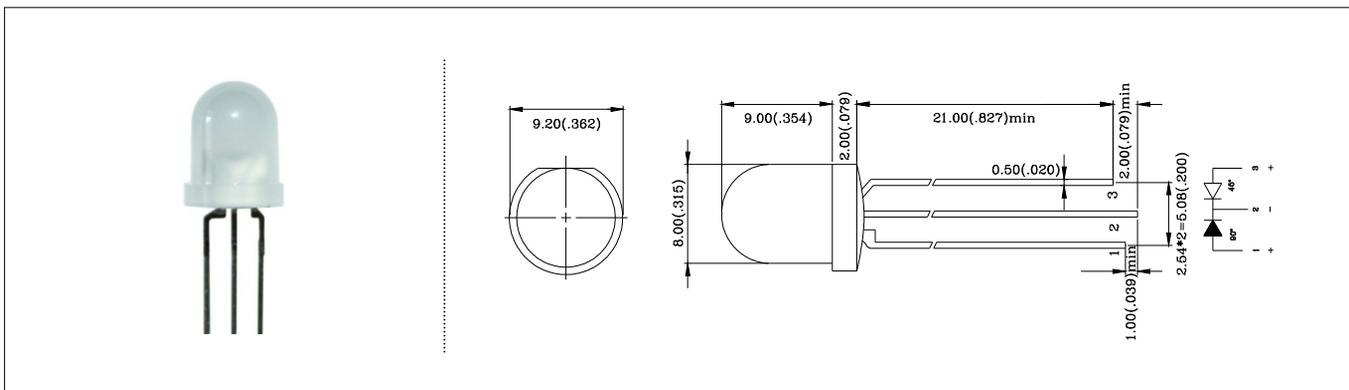
Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-419GYW	LJS5GYW752	GaP	Yellow Green	White Diffused	570	2.2	2.6	6	120
		GaAsP	Yellow		587	2.0	2.6	5	
L-419EGW	LJS5EGW751	GaAsP	Orange	White Diffused	622	2.1	2.6	8	120
		GaP	Yellow Green		570	2.2	2.6	6	

L-519XX -5.0mm Dia. LED LAMP



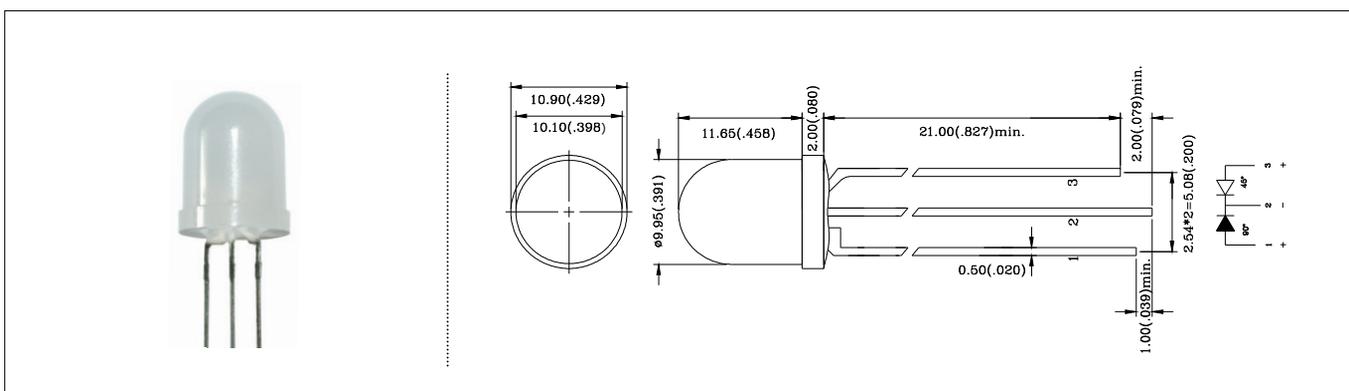
Part No	Ref. PN	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-519GYW	LJR5GYW750	GaP	Yellow Green	White Diffused	570	2.2	2.6	10	120
		GaAsP	Yellow		587	2.0	2.6	7	
L-519EGW	LJR5EGW749	GaAsP	Orange	White Diffused	622	2.1	2.6	15	120
		GaP	Yellow Green		570	2.2	2.6	10	
L-519EYW	LJR5EYW748	GaAsP	Orange	White Diffused	622	2.1	2.6	15	120
		GaAsP	Yellow		587	2.0	2.6	7	

L-819XX -8.0mm Dia. LED LAMP



Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-819GYW	LJR8GYW747	GaP	Yellow Green	White Diffused	570	2.2	2.6	15	140
		GaAsP	Yellow		587	2.0	2.6	12	
L-819EGW	LJR8EGW746	GaAsP	Orange	White Diffused	622	2.1	2.6	20	140
		GaP	Yellow Green		570	2.2	2.6	15	

L-839XX -10.0mm Dia. LED LAMP



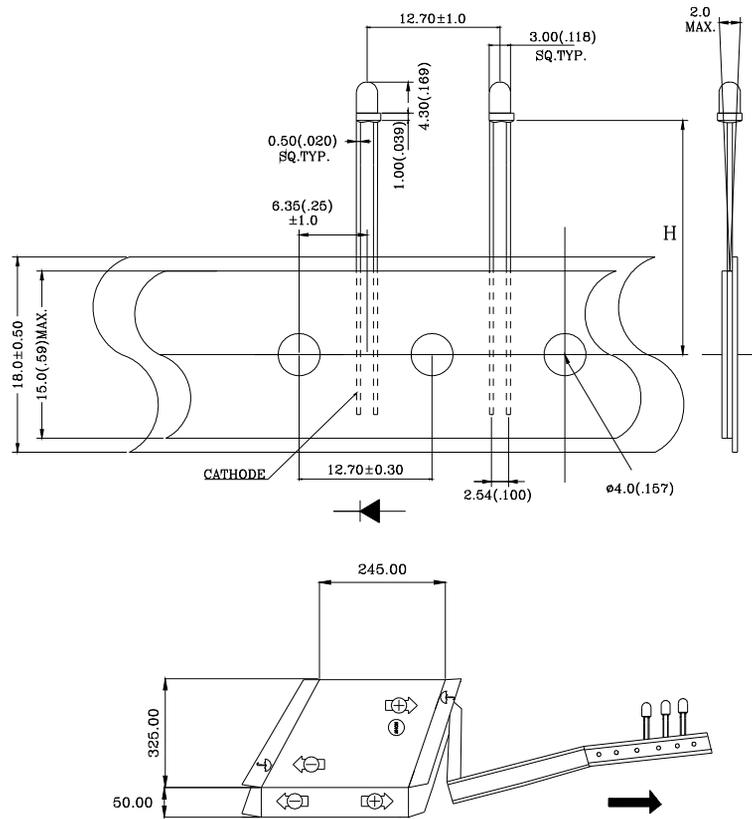
Part No	Ref. PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-839GYW	LJR8GYW745	GaAsP	Yellow Green	White Diffused	570	2.2	2.6	10	120
		GaP	Yellow		587	2.0	2.6	7	
L-839EGW	LJR8EGW744	GaAsP	Orange	White Diffused	622	2.1	2.6	15	120
		GaAsP	Yellow Green		570	2.2	2.6	10	
L-839EYW	LJR8EYW743	GaAlAs	Orange	White Diffused	622	2.1	2.6	15	120
		GaInP	Super Yellow		587	2.0	2.6	7	

LED LAMP

L-314XXX-TBSH -3.0mm Dia. LED LAMP

LED LAMP

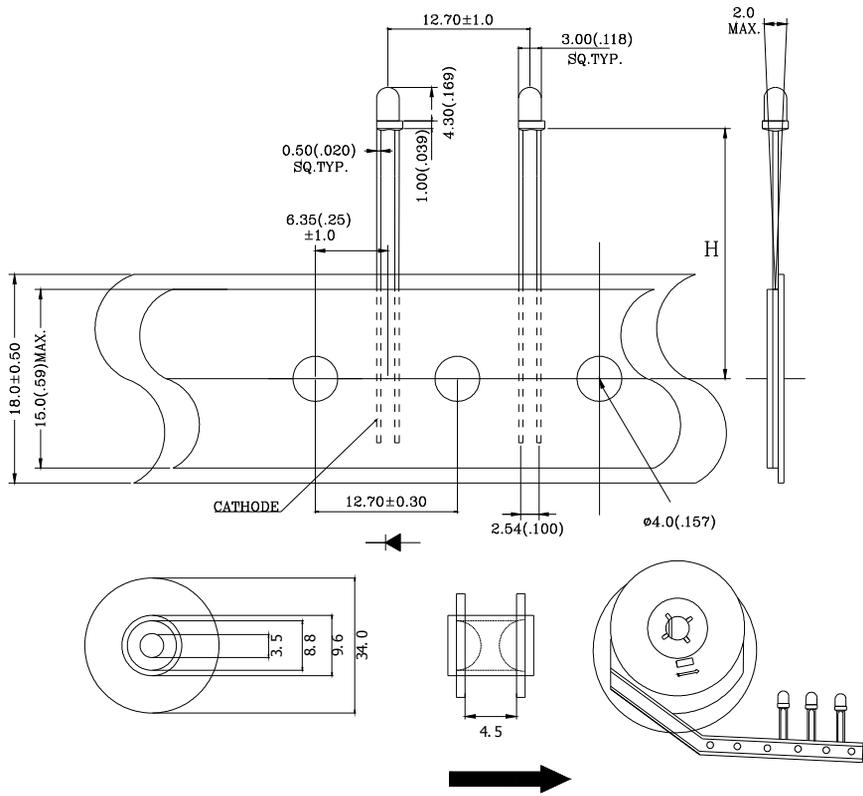
Part NO	H
L-314XX-TBS180	18.0mm
L-314XX-TBS190	19.0mm
L-314XX-TBS200	20.0mm
L-314XX-TBS220	22.0mm
L-314XX-TBS240	24.0mm



Part No	Ref.PN	Chip		Lens Color	Wave length λD (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd) 20mA	
						Typ.	Max.	Typ.	
L-314GD-TBSH	LJR3GD742	GaP	Yellow Green	Green Diffused	570	2.2	2.6	20	110
L-314YD-TBSH	LJR3YD741	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	15	110
L-314ED-TBSH	LJR3ED740	GaAsP	Orange	Red Diffused	628	2.1	2.6	25	110
L-314VG3C-TBSH	LJR3VG3C739	GaAlInP	Super Yellow Green	Water Clear	572	2.0	2.6	600	20
L-314UB5C-TBSH	LJR3UB5C738	GaN	Blue	Water Clear	470	3.5	3.8	3000	20

L-314XXX-TRSH -3.0mm Dia. LED LAMP

Part NO	H
L-314XX-TRS180	18.0mm
L-314XX-TRS190	19.0mm
L-314XX-TRS200	20.0mm
L-314XX-TRS220	22.0mm
L-314XX-TRS240	24.0mm



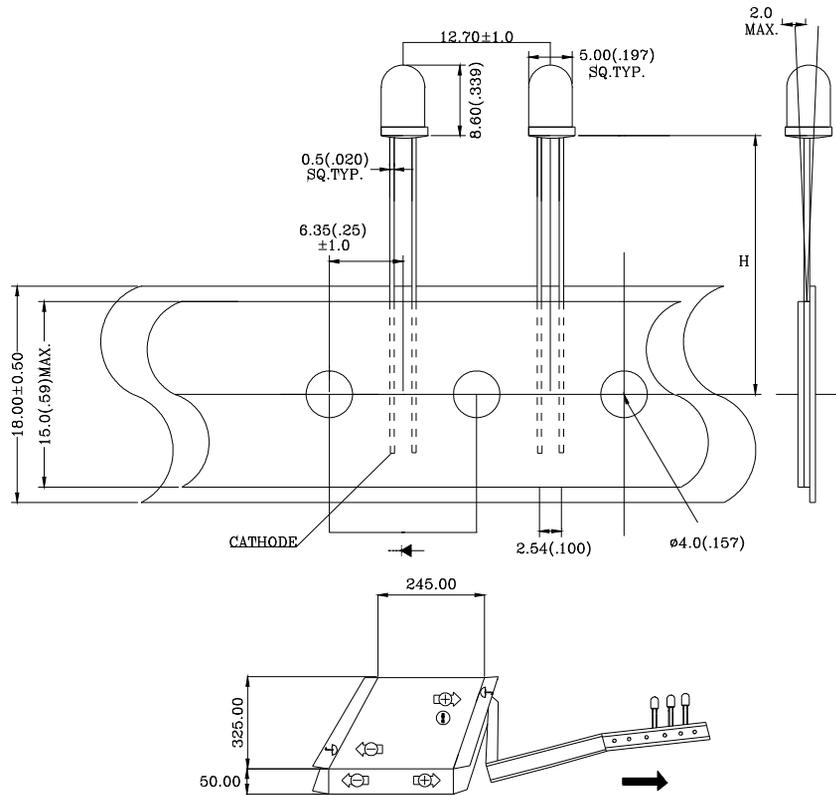
Part No	Ref.PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd) 20mA	
						Typ.	Max.	Typ.	
L-314GD-TRSH	LJR3GD737	GaP	Yellow Green	Green Diffused	570	2.2	2.6	20	110
L-314YD-TRSH	LJR3YD736	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	15	110
L-314ED-TRSH	LJR3ED735	GaAsP	Orange	Red Diffused	628	2.1	2.6	25	110
L-314VG3C-TRSH	LJR3VG3C734	GaAlInP	Super Yellow Green	Water Clear	572	2.0	2.6	600	20
L-314UB5C-TRSH	LJR3UB5C733	GaInN	Blue	Water Clear	470	3.5	3.8	3000	20

LED LAMP

L-513XXX-TBSH -5.0mm Dia. LED LAMP

LED LAMP

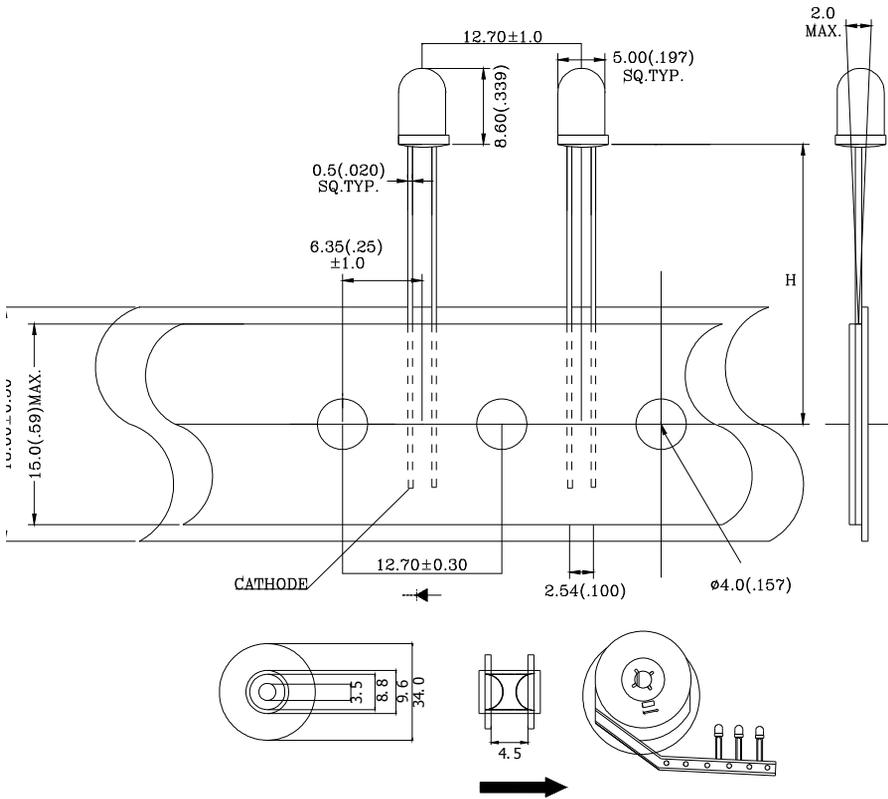
Part NO	H
L-513XX-TBS180	18.0mm
L-513XX-TBS190	19.0mm
L-513XX-TBS200	20.0mm
L-513XX-TBS220	22.0mm
L-513XX-TBS240	24.0mm



Part No	Ref.PN	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd) 20mA	
						Typ.	Max.	Typ.	
L-513ED-E610-TBSH	LJR5AD732	GaAsP	Amber	Orange Diffused	605	2.1	2.6	20	110
L-513GD-TBSH	LJR5GD731	GaP	Yellow Green	Green Diffused	570	2.2	2.6	20	110
L-513YD-TBSH	LJR5YD730	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	15	110
L-513ED-TBSH	LJR5ED729	GaAsP	Orange	Red Diffused	628	2.1	2.6	20	110
L-513SRD-TBSH	LJR5SRD728	GaAlAs	Red	Red Diffused	640	1.8	2.2	40	110

L-513XXX-TRSH -5.0mm Dia. LED LAMP

Part NO	H
L-513XX-TRS180	18.0mm
L-513XX-TRS190	19.0mm
L-513XX-TRS200	20.0mm
L-513XX-TRS220	22.0mm
L-513XX-TRS240	24.0mm

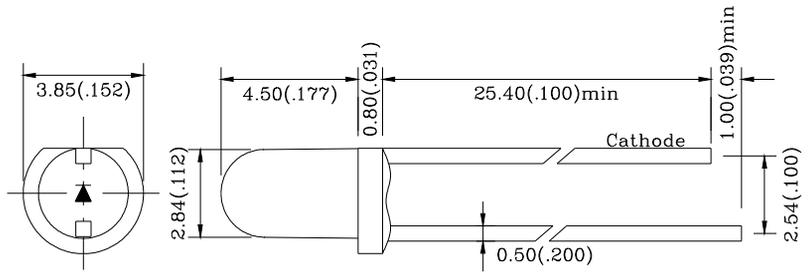


Part No	Ref.PN	Chip		Lens Color	Wave length λD (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd) 20mA	
						Typ.	Max.	Typ.	
L-513ED-E610-TRSH	LJR5AD727	GaAsP	Amber	Orange Diffused	605	2.1	2.6	20	110
L-513GD-TRSH	LJR5GD726	GaP	Yellow Green	Green Diffused	570	2.2	2.6	20	110
L-513YD-TRSH	LJR5YD725	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	15	110
L-513ED-TRSH	LJR5ED724	GaAsP	Orange	Red Diffused	628	2.1	2.6	20	110
L-513SRD-TRSH	LJR5SRD723	GaAlAs	Red	Red Diffused	640	1.8	2.2	40	110

LED LAMP

L-31XXIR1X -3.0mm INFRARED EMITTING DIODE

LED LAMP



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

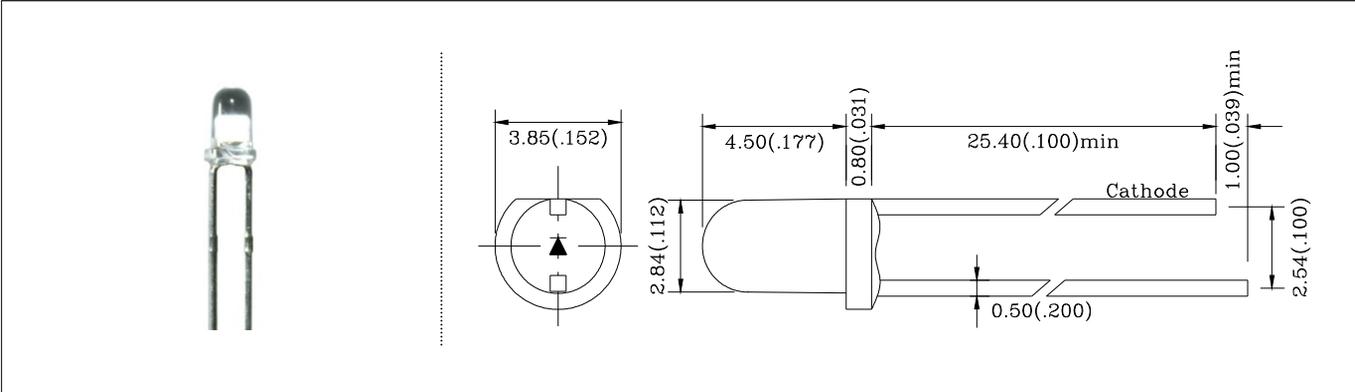
Part No	PD(mw)	VR(V)	Topr	Tstg
L-31XXIR1XX	100	5	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Reverse Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	IF=20mA IF=100mA			VR=5V			IF=20mA			IF=20mA			IF=20mA		
	VF(V)			IR (μA)			λp(nm)			2 θ 1/2 (dgc)			Ie(mw/sr)		
Part No	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
L-314EIR1C		1.2 1.4	1.6			10			940			20			7 14
L-315EIR1C		1.2 1.4	1.6			10			940			25			6 12
L-316EIR1C		1.2 1.4	1.6			10			940			30			6 12
L-318EIR1C		1.2 1.4	1.6			10			940			40			6 10
L-314EIR1BC		1.2 1.4	1.6			10			940			20			5 10
L-315EIR1BC		1.2 1.4	1.6			10			940			25			6 12
L-316EIR1BC		1.2 1.4	1.6			10			940			30			6 12
L-318CIR1BC		1.2 1.4	1.6			10			940			40			4 8

L-31XXIR4X -3.0mm INFRARED EMITTING DIODE



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

Part No	PD(mw)	VR(V)	Topr	Tstg
L-31XXIR4XX	100	5	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Reverse Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

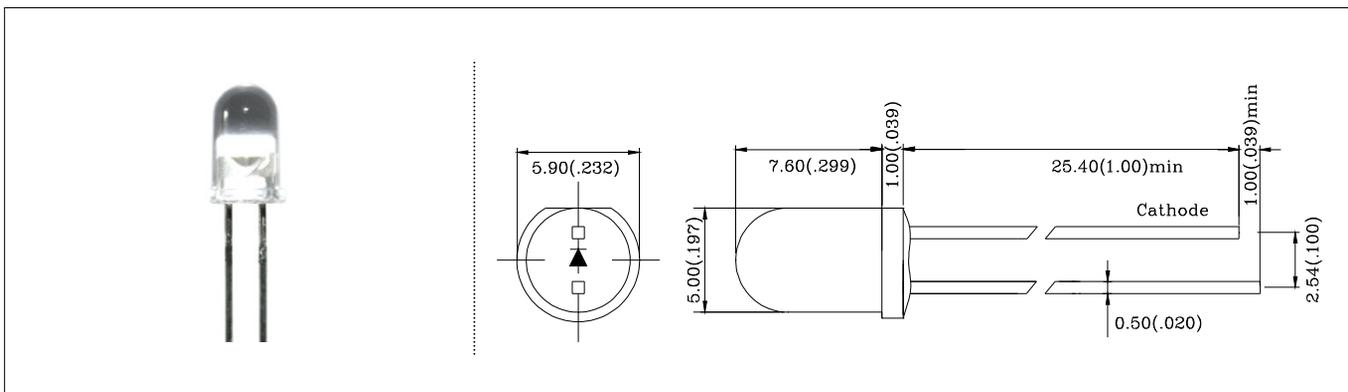
◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	IF=20mA IF=100mA			VR=5V			IF=20mA			IF=20mA			IF=20mA		
	VF(V)			IR (μA)			λp(nm)			2 θ 1/2 (dgc)			Ie(mw/sr)		
	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
L-314EIR4C		1.4 1.6	1.8 2.0			10		850			20		7	21	
L-315EIR4C		1.4 1.6	1.8 2.0			10		850			25		6	18	
L-316EIR4C		1.4 1.6	1.8 2.0			10		850			30		6	18	
L-318EIR4C		1.4 1.6	1.8 2.0			10		850			40		12	30	
L-314EIR4BC		1.4 1.6	1.8 2.0			10		850			20		5	15	
L-315EIR4BC		1.4 1.6	1.8 2.0			10		850			25		6	18	
L-316EIR4BC		1.4 1.6	1.8 2.0			10		850			30		6	18	
L-318EIR4BC		1.4 1.6	1.8 2.0			10		850			40		6	15	
L-31AEIR4C		1.4 1.6	1.8 2.0			10		850			50		12	30	

LED LAMP

L-51XXIR1X -5.0mm INFRARED EMITTING DIODE

LED LAMP



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

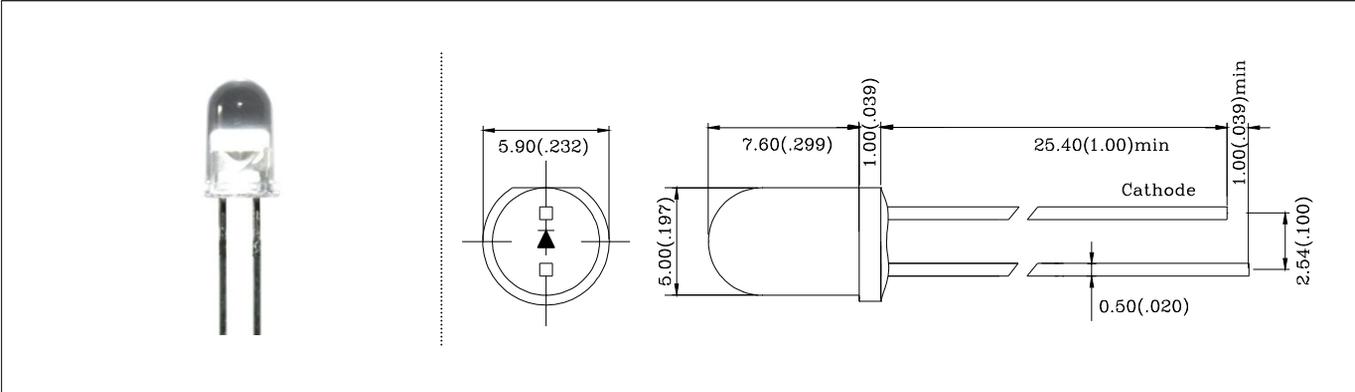
Part No	PD(mw)	VR(V)	Topr	Tstg
L-51XXIR1XX	180	5	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Reverse Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	IF=20mA IF=100mA			VR=5V			IF=20mA			IF=20mA			IF=20mA		
	VF(V)			IR (μA)			λp(nm)			2 θ 1/2 (dgc)			Ie(mw/sr)		
Part No	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
L-514EIR1C		1.2 1.4	1.6			10			940			20			17 30
L-516EIR1C		1.2 1.4	1.6			10			940			30			12 23
L-517EIR1C		1.2 1.4	1.6			10			940			35			10 20
L-518CIR1C		1.3 1.5	1.8			10			940			40			6 12
L-519EIR1C		1.2 1.4	1.6			10			940			45			7 15
L-51CEIR1C		1.3 1.5	1.8			10			940			50			3 6
L-514EIR1BC		1.2 1.4	1.6			10			940			20			17 30
L-516EIR1BC		1.2 1.4	1.6			10			940			30			12 23
L-517EIR1BC		1.2 1.4	1.6			10			940			35			10 20
L-518EIR1BC		1.2 1.4	1.6			10			940			40			8 18
L-519EIR1BC		1.2 1.4	1.6			10			940			45			7 15
L-51AEIR1BC		1.2 1.4	1.6			10			940			50			6 12

L-51XXIR2X -5.0mm INFRARED EMITTING DIODE



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

Part No	PD(mw)	VR(V)	Topr	Tstg
L-51XXIR2XX	180	5	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Reverse Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

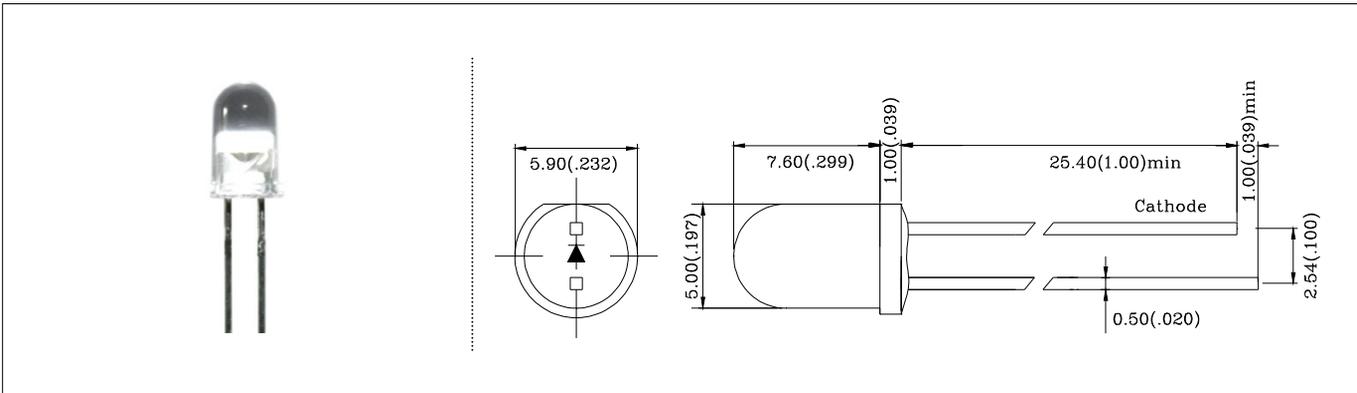
◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	IF=20mA IF=100mA			VR=5V			IF=20mA			IF=20mA			IF=20mA		
	VF(V)			IR (μA)			λp(nm)			2 θ 1/2 (dgc)			Ie(mw/sr)		
Part No	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
L-514EIR2C		1.3 1.6	1.8			10			880			20		17	30
L-516EIR2C		1.3 1.6	1.8			10			880			30		12	23
L-518EIR2C		1.3 1.6	1.8			10			880			40		8	21
L-51AEIR2C		1.3 1.6	1.8			10			880			50		6	10
L-514EIR2BC		1.3 1.6	1.8			10			880			20		17	30
L-516EIR2BC		1.3 1.6	1.8			10			880			30		12	23
L-518EIR2BC		1.3 1.6	1.8			10			880			40		8	21
L-51AEIR2BC		1.3 1.6	1.8			10			880			50		6	10

LED LAMP

L-51XXIR3X -5.0mm INFRARED EMITTING DIODE

LED LAMP



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

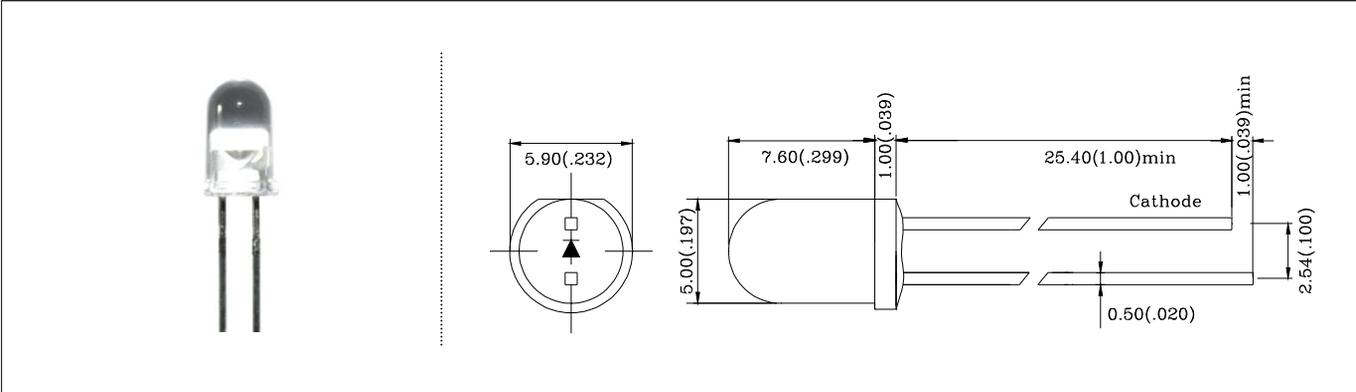
Part No	PD(mw)	VR(V)	Topr	Tstg
L-51XXIR3XX	200	5	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Reverse Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	IF=20mA IF=100mA			VR=5V			IF=20mA			IF=20mA			IF=20mA		
	VF(V)			IR (μA)			λp(nm)			2 θ 1/2 (dgc)			Ie(mw/sr)		
Part No	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
L-514EIR3C		1.4 1.6	1.6 1.9			10			865			20			30 50
L-515EIR3C		1.4 1.6	1.6 1.9			10			865			25			28 35
L-516EIR3C		1.4 1.6	1.6 1.9			10			865			30			26 30
L-517CIR3C		1.4 1.6	1.6 1.9			10			865			35			20 25
L-518EIR3C		1.4 1.6	1.6 1.9			10			865			40			18 22
L-51AEIR3C		1.4 1.6	1.6 1.9			10			865			50			16 20
L-514EIR3BC		1.4 1.6	1.6 1.9			10			865			20			30 50
L-515EIR3BC		1.4 1.6	1.6 1.9			10			865			25			28 35
L-516EIR3BC		1.4 1.6	1.6 1.9			10			865			30			26 30
L-518EIR3BC		1.4 1.6	1.6 1.9			10			865			40			18 22
L-51AEIR3BC		1.4 1.6	1.6 1.9			10			865			50			16 20

L-51XXIR4X -5.0mm INFRARED EMITTING DIODE



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

Part No	PD(mw)	VR(V)	Topr	Tstg
L-51XXIR4XX	200	5	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Reverse Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

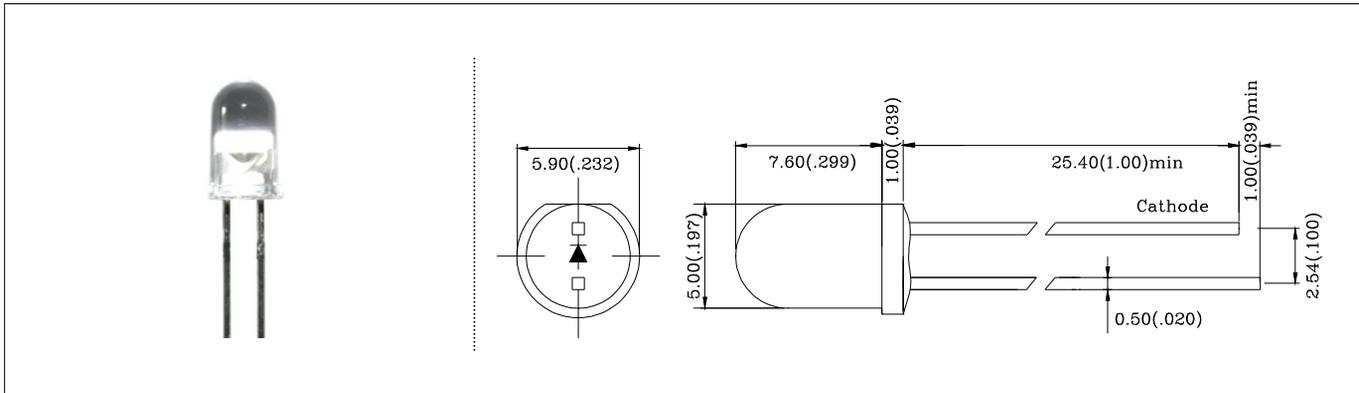
◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	IF=20mA IF=100mA			VR=5V			IF=20mA			IF=20mA			IF=20mA		
	VF(V)			IR (μA)			λp(nm)			2 θ 1/2 (dgc)			Ie(mw/sr)		
	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
L-514EIR4C		1.4 1.6	1.8 2.0			10		850			20		28	40	
L-516EIR4C		1.4 1.6	1.8 2.0			10		850			30		20	30	
L-518EIR4C		1.4 1.6	1.8 2.0			10		850			40		12	20	
L-51AEIR4C		1.4 1.6	1.8 2.0			10		850			50		6	12	
L-51CEIR4C		1.4 1.6	1.8 2.0			10		850			60		5	10	
L-514EIR4BC		1.4 1.6	1.8 2.0			10		850			20		28	40	
L-516EIR4BC		1.4 1.6	1.8 2.0			10		850			30		20	30	
L-518EIR4BC		1.4 1.6	1.8 2.0			10		850			40		12	20	
L-51AEIR4BC		1.4 1.6	1.8 2.0			10		850			50		6	12	

LED LAMP

L-51XGIR4X -5.0mm INFRARED EMITTING DIODE

LED LAMP



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

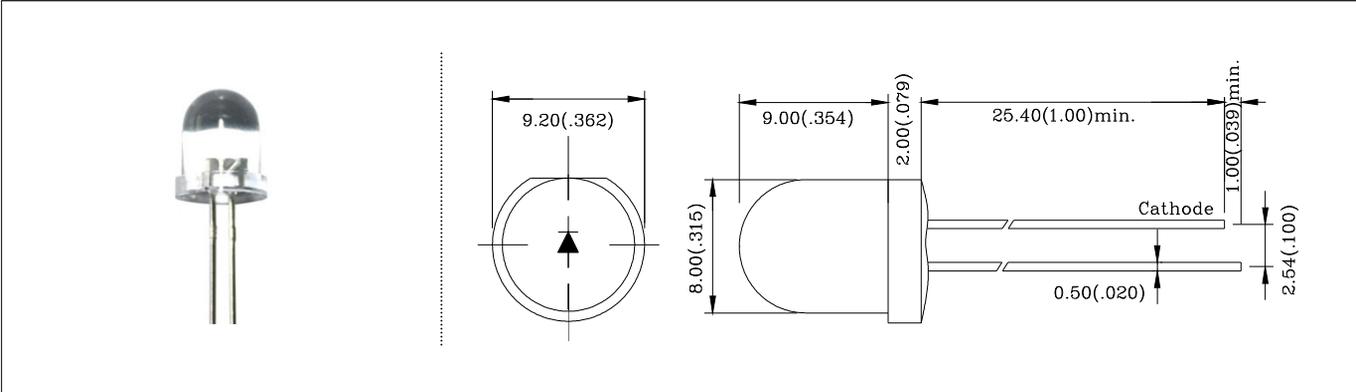
Part No	PD(mw)	VR(V)	Topr	Tstg
L-51XGIR4XX	200	5	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Reverse Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	IF=70mA IF=100mA			VR=5V			IF=100mA			IF=100mA			IF=100mA		
	VF(V)			IR (μA)			λp(nm)			2 θ 1/2 (dgc)			Ie(mw/sr)		
Part No	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
L-514GIR4C		1.4 1.5	1.8 2.0			10		850			20		127	170	
L-516GIR4C		1.4 1.5	1.8 2.0			10		850			30		112	160	
L-518GIR4C		1.4 1.5	1.8 2.0			10		850			40		68	85	
L-51AGIR4C		1.4 1.5	1.8 2.0			10		850			50		28	40	
L-514GIR4BC		1.4 1.5	1.8 2.0			10		850			20		127	170	
L-516GIR4BC		1.4 1.5	1.8 2.0			10		850			30		112	160	
L-518GIR4BC		1.4 1.5	1.8 2.0			10		850			40		68	85	
L-51AGIR4BC		1.4 1.5	1.8 2.0			10		850			50		28	40	

L-81XXIR4X -8.0mm INFRARED EMITTING DIODE



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

Part No	PD(mw)	VR(V)	Topr	Tstg
L-81XXIR4XX	240	5	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Reverse Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

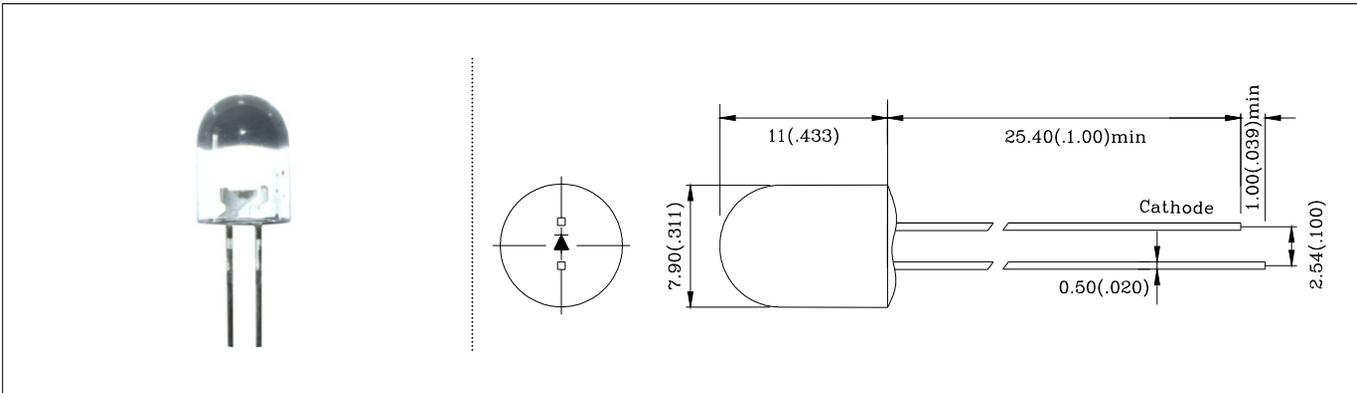
◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	IF=20mA IF=100mA			VR=5V			IF=20mA			IF=20mA			IF=20mA		
	VF(V)			IR (μA)			λp(nm)			2 θ 1/2 (dgc)			Ie(mw/sr)		
	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
L-814CIR4C		1.4 1.6	1.8 2.0			10			850			20			28 40
L-816CIR4C		1.4 1.6	1.8 2.0			10			850			30			18 28
L-818CIR4C		1.4 1.6	1.8 2.0			10			850			40			15 22
L-81ACIR4C		1.4 1.6	1.8 2.0			10			850			50			6 11
L-814EIR4C		1.4 1.6	1.8 2.0			10			850			20			32 50
L-816EIR4C		1.4 1.6	1.8 2.0			10			850			30			24 36
L-818EIR4C		1.4 1.6	1.8 2.0			10			850			40			15 24
L-81AEIR4C		1.4 1.6	1.8 2.0			10			850			50			8 14
L-814EIR4BC		1.4 1.6	1.8 2.0			10			850			20			32 50
L-816EIR4BC		1.4 1.6	1.8 2.0			10			850			30			24 36

LED LAMP

L-89XGIR4X -8.0mm INFRARED EMITTING DIODE

LED LAMP



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

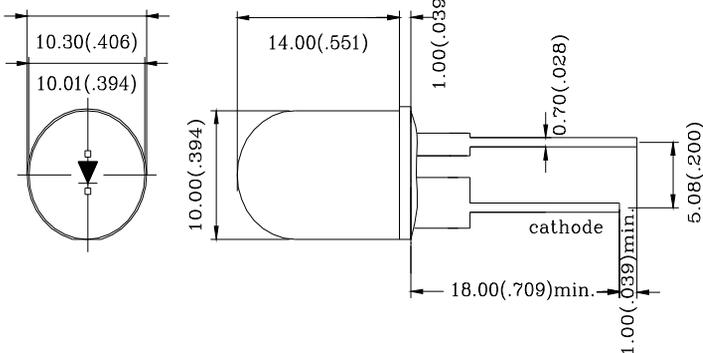
Part No	PD(mw)	VR(V)	Topr	Tstg
L-89XGIR4XX	160	5	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Reverse Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	IF=70mA IF=100mA			VR=5V			IF=100mA			IF=100mA			IF=100mA		
	VF(V)			IR (μA)			λp(nm)			2 θ 1/2 (dgc)			Ie(mw/sr)		
Part No	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
L-892GIR4C		1.4 1.5	1.8 2.0			10			850			10			320 400
L-894GIR4C		1.4 1.5	1.8 2.0			10			850			20			127 180
L-896GIR4C		1.4 1.5	1.8 2.0			10			850			30			74 100
L-898GIR4C		1.4 1.5	1.8 2.0			10			850			40			38 55
L-89CGIR4C		1.4 1.5	1.8 2.0			10			850			60			32 50

L-84XOIR4X -10.0mm INFRARED EMITTING DIODE



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

Part No	PD(mw)	VR(V)	Topr	Tstg
L-84XOIR4XX	500	5	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Reverse Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

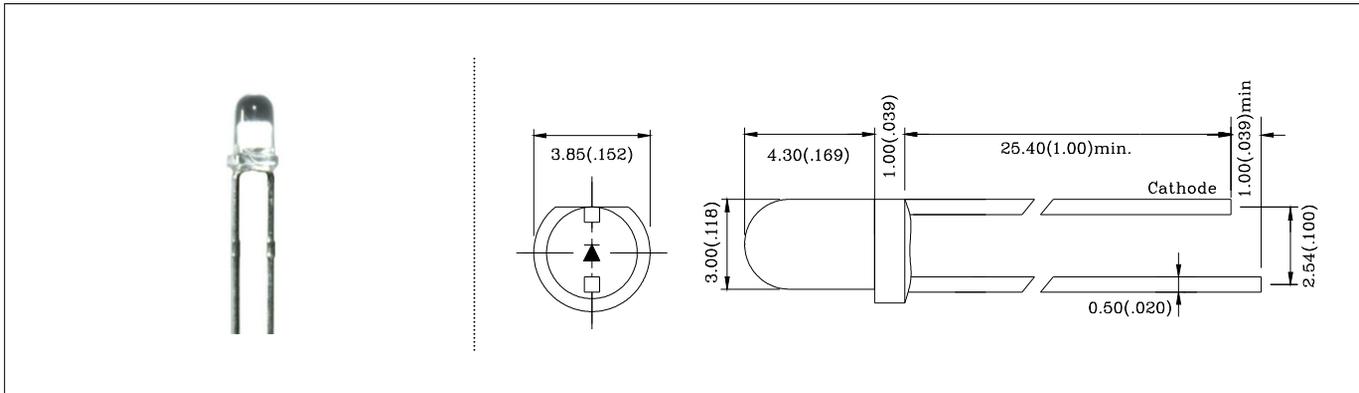
◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	IF=150mA IF=350mA			VR=5V			IF=20mA			IF=350mA			IF=350mA		
	VF(V)			IR (μA)			λp(nm)			2 θ 1/2 (dge)			le(mw/sr)		
Part No	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
L-842OIR4C		1.5 1.7	2.1 2.4			10		850			10		790	900	
L-844OIR4C		1.5 1.7	2.1 2.4			10		850			20		320	420	
L-846OIR4C		1.5 1.7	2.1 2.4			10		850			30		264	350	
L-848OIR4C		1.5 1.7	2.1 2.4			10		850			40		240	300	
L-84AOIR4C		1.5 1.7	2.1 2.4			10		850			50		200	250	

LED LAMP

L-31ROPT1X -3.0mm PHOTOTRANSISTOR

LED LAMP



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

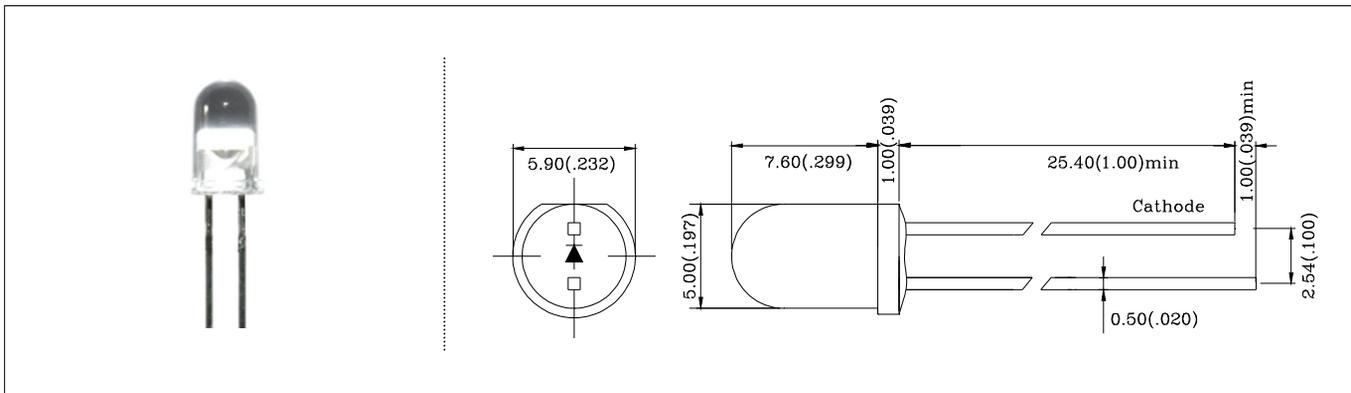
Part No	PD(mw)	V(BR)CEO	Topr	Tstg
L-31ROPT1X	150	30	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Collector-Emitter Breakdown Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	Ic=100uA Ee=0 mw/cm ²			IE=100μA Ee= 0 mw/cm ²			VCE=20V Ee=0 mw/cm ²			IC=2mA Ee=0.5 mw/cm ²			VCE=5V IC=1mA RL=1000 Ω			VCE=5V Ee=0.1 mw/cm ²					
	BVCEO(V)			BVECO(V)			ICEO(nA)			VCE(S) (V)			TR/TF(uS)			IC(mA)			λp(nm)		
Part No	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
L-31ROPT1C	30			5					100			0.4		15/15			4		400		1050
L-31ROPT1D1	30			5					100			0.4		15/15			1.2		900	940	
L-31ROPT1D2	30			5					100			0.4		15/15			2		800	870	
L-31ROPT1D1-T01	30			5					100			0.4		15/15			1.3		900	940	
L-31ROPT1D1-T02	30			5					100			0.4		15/15			3		900	940	

L-51ROPT1X -5.0mm PHOTOTRANSISTOR



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

Part No	PD(mw)	V(BR)CEO	Topr	Tstg
L-51ROPT1X	10	30	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Collector-Emitter Breakdown Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

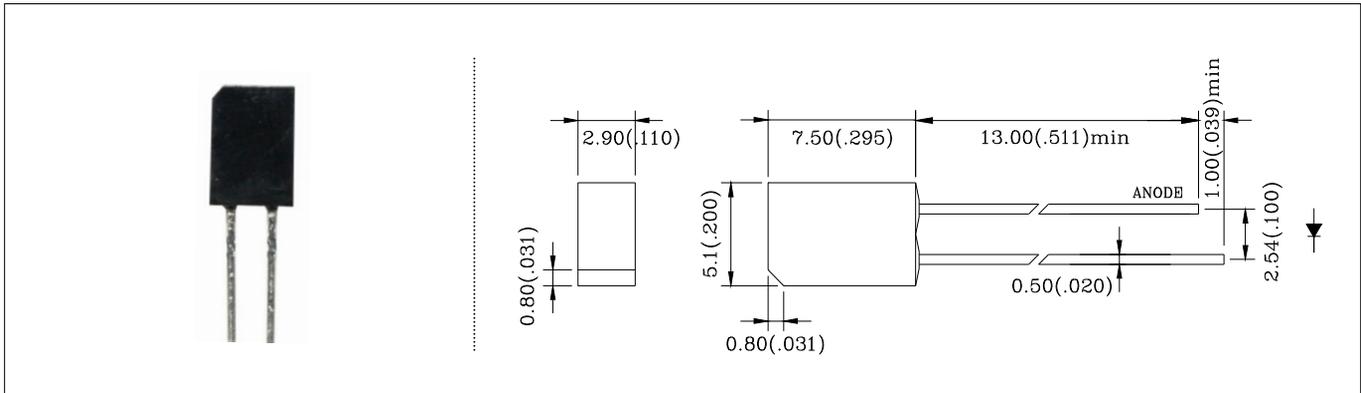
◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	Ic=100uA Ee=0 mw/cm ²			IE=100μA Ee= 0 mw/cm ²			VCE=20V Ee=0 mw/cm ²			IC=2mA Ee=0.5 mw/cm ²			VCE=5V IC=1mA RL=1000 Ω			VCE=5V Ee=0.1 mw/cm ²							
	BVCEO(V)			BVECO(V)			ICEO(nA)			VCE(S) (V)			TR/TF(μs)			IC(mA)			λp(nm)				
Part No	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.		
	L-51ROPT1C	30			5					100			0.4			15/15			2			400	
L-51ROPT1D1	30			5					100			0.4			15/15			1.2			900	940	
L-51ROPT1D2	30			5					100			0.4			15/15			1.2			800	870	
L-51ROPT1C-T02	30			5					100			0.4			15/15			3			400		1050

LED LAMP

L-SB1R9PD1X - PHOTOTRANSISTOR

LED LAMP



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

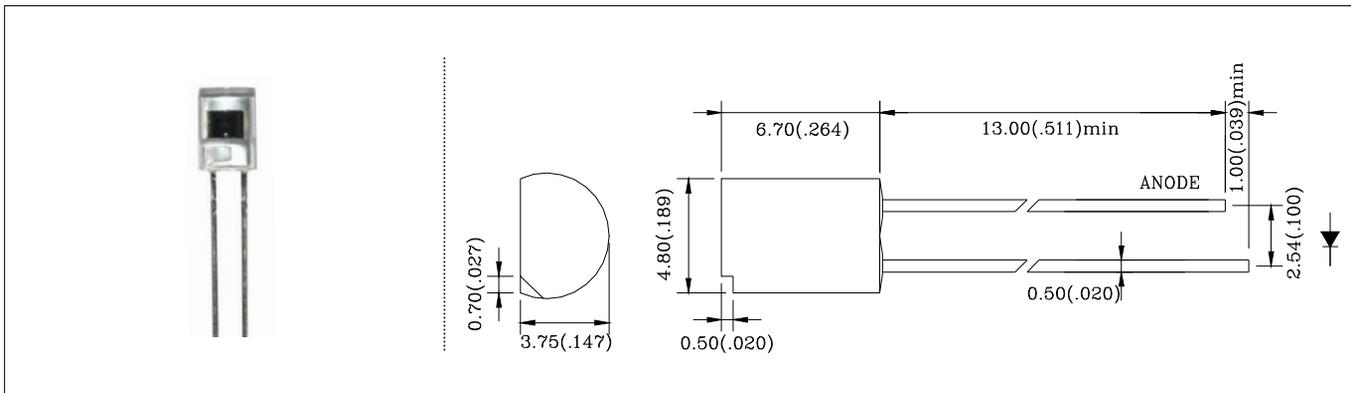
Part No	PD(mw)	V(BR)CEO	Topr	Tstg
L-SB1R9PD1X	150	30	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Collector-Emitter Breakdown Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	VR= 10V Ee= 0 mw/cm ²			IR=100μA Ee= 0 mw/cm ²			λP=940nm Ee=0.5mw/cm ²			VR=5V Ee=0.1 mw/cm ²			VR=10V RL=1000Ω			f=1MHZ VR=5V Ee=0 mw/cm ²						
Part No	ID(nA)			V(BR)R(V)			VOC(V)			IL(uA)			tON/Toff(nS)			IC(mA)			λp(nm)			
	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
L-SB1R9PD1C		5	30	33	170				390		30	40			45/45			18		400		1050
L-SB1R9PD1D1		5	30	33	170				390		30	40			45/45			18		900	940	
L-SB1R9PD1D2		5	30	33	170				390		30	40			45/45			18		800	870	

L-SC1R9PD1X - PHOTOTRANSISTOR



◆ ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

Part No	PD(mw)	V(BR)CEO	Topr	Tstg
L-SC1R9PD1X	150	30	-35°C to 85°C	-35°C to 85°C
PARAMETER	Power Dissipation	Collector-Emitter Breakdown Voltage	Operating Temperature Range	Storage Temperature Range

Lead Soldering Temperature { 1.6mm(0.063 inch) From Body } 250°C ± 5°C for 3 Seconds

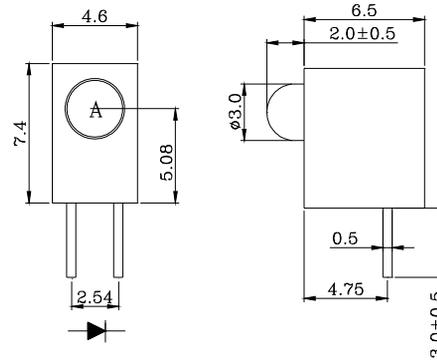
◆ ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

TEST CONDITION	VR= 10V Ee = 0 mw/cm ²			IR=100μA Ee = 0 mw/cm ²			λP=940nm Ee=0.5mw/cm ²			VR=5V Ee=0.1 mw/cm ²			VR=10V RL=1000 Ω			f=1MHZ VR=5V Ee=0 mw/cm ²						
	ID(nA)			V(BR)R(V)			VOC(V)			IL(uA)			tON/Toff(nS)			IC(mA)			λp(nm)			
	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
L-SC1R9PD1C		5	30	33	170				390		30	40			45/45			18		400		1050
L-SC1R9PD1D1		5	30	33	170				390		30	40			45/45			18		900	940	
L-SC1R9PD1D2		5	30	33	170				390		30	40			45/45			18		800	870	

LED LAMP

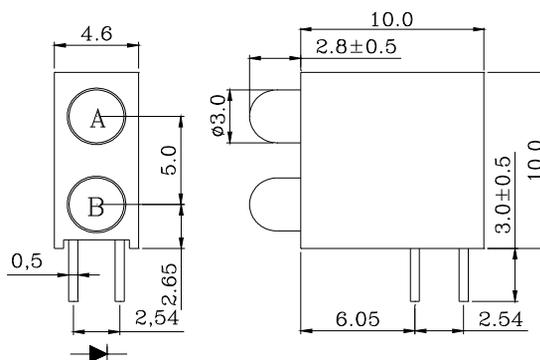
L-H311XXXX -3.0mm LED LAMP WITH LHY3301-1 HOLDER

LED HOLDER



Part No	LED Lamp	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-H311005B	A=L-3541GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	18	60
L-H311006B	A=L-3541YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	18	60
L-H311007B	A=L-3541ED	GaAsP	Orange	Red Diffused	628	2.1	2.6	18	60
L-H311008B	A=L-3541SRD	GaAlAs	Red	Red Diffused	640	1.8	2.2	50	60

L-H322XXXX -3.0mm LED LAMP WITH LHY3302-7 HOLDER



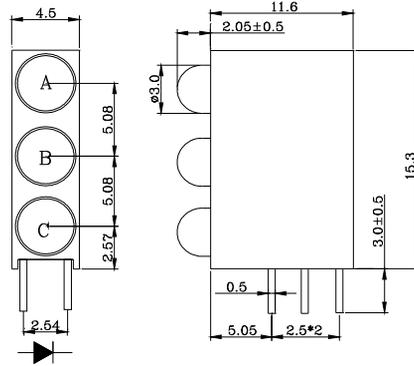
LED HOLDER

Part No	LED Lamp	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-H322005B	A=L-3541GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	18	60
	B=L-3541GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	18	60
L-H322006B	A=L-3541YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	18	60
	B=L-3541YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	18	60
L-H322007B	A=L-3541ED	GaAsP	Orange	Red Diffused	628	2.1	2.6	18	60
	B=L-3541ED	GaAsP	Orange	Red Diffused	628	2.1	2.6	18	60
L-H322008B	A=L-3541SRD	GaAlAs	Red	Red Diffused	640	1.8	2.2	50	60
	B=L-3541SRD	GaAlAs	Red	Red Diffused	640	1.8	2.2	50	60

LED LAMP

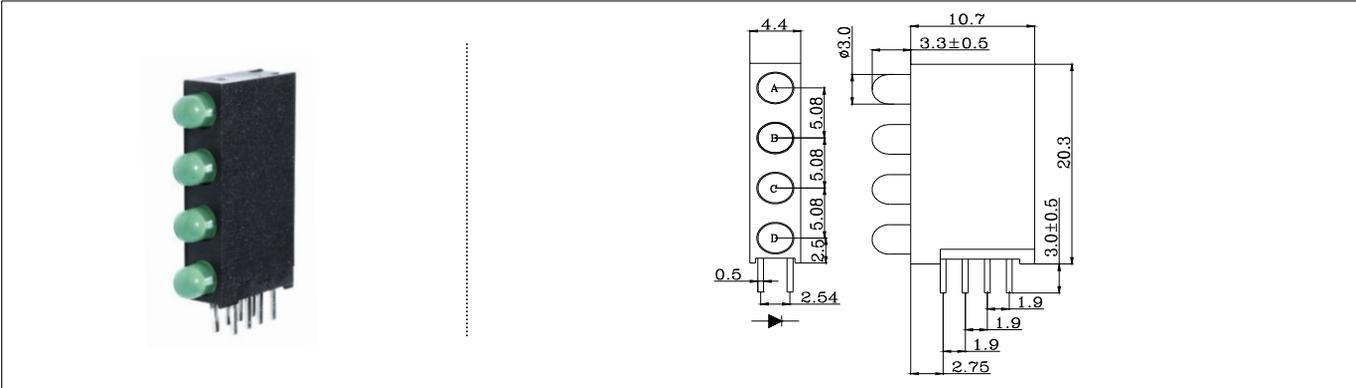
L-H331XXXX -3.0mm LED LAMP WITH LHY3303-4 HOLDER

LED HOLDER



Part No	LED Lamp	Chip		Lens Color	Wave length λ D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-H331005B	A=L-3541GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	18	60
	B=L-3541GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	18	60
	C=L-3541GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	18	60
L-H331006B	A=L-3541YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	18	60
	B=L-3541YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	18	60
	C=L-3541YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	18	60
L-H331007B	A=L-3541ED	GaAsP	Orange	Red Diffused	628	2.1	2.6	18	60
	B=L-3541ED	GaAsP	Orange	Red Diffused	628	2.1	2.6	18	60
	C=L-3541ED	GaAsP	Orange	Red Diffused	628	2.1	2.6	18	60
L-H331008B	A=L-3541SRD	GaAlAs	Red	Red Diffused	640	1.8	2.2	50	60
	B=L-3541SRD	GaAlAs	Red	Red Diffused	640	1.8	2.2	50	60
	C=L-3541SRD	GaAlAs	Red	Red Diffused	640	1.8	2.2	50	60

L-H341XXXX -3.0mm LED LAMP WITH LED340A/B HOLDER

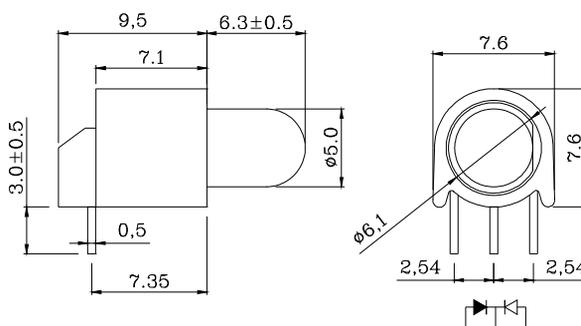


Part No	LED Lamp	Chip		Lens Color	Wave length λD (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-H341005B	A=L-3541GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	18	60
	B=L-3541GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	18	60
	C=L-3541GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	18	60
	D=L-3541GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	18	60
L-H341006B	A=L-3541YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	18	60
	B=L-3541YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	18	60
	C=L-3541YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	18	60
	D=L-3541YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	18	60
L-H341007B	A=L-3541ED	GaAsP	Orange	Red Diffused	628	2.1	2.6	18	60
	B=L-3541ED	GaAsP	Orange	Red Diffused	628	2.1	2.6	18	60
	C=L-3541ED	GaAsP	Orange	Red Diffused	628	2.1	2.6	18	60
	D=L-3541ED	GaAsP	Orange	Red Diffused	628	2.1	2.6	18	60
L-H341008B	A=L-3541SRD	GaAlAs	Red	Red Diffused	640	1.8	2.2	50	60
	B=L-3541SRD	GaAlAs	Red	Red Diffused	640	1.8	2.2	50	60
	C=L-3541SRD	GaAlAs	Red	Red Diffused	640	1.8	2.2	50	60
	D=L-3541SRD	GaAlAs	Red	Red Diffused	640	1.8	2.2	50	60

LED LAMP

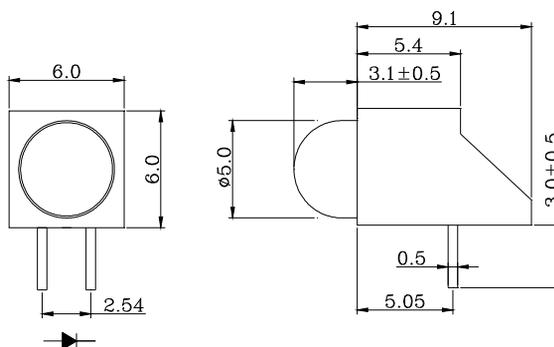
L-H511XXXX -5.0mm LED LAMP WITH LHY6101-1 HOLDER

LED HOLDER



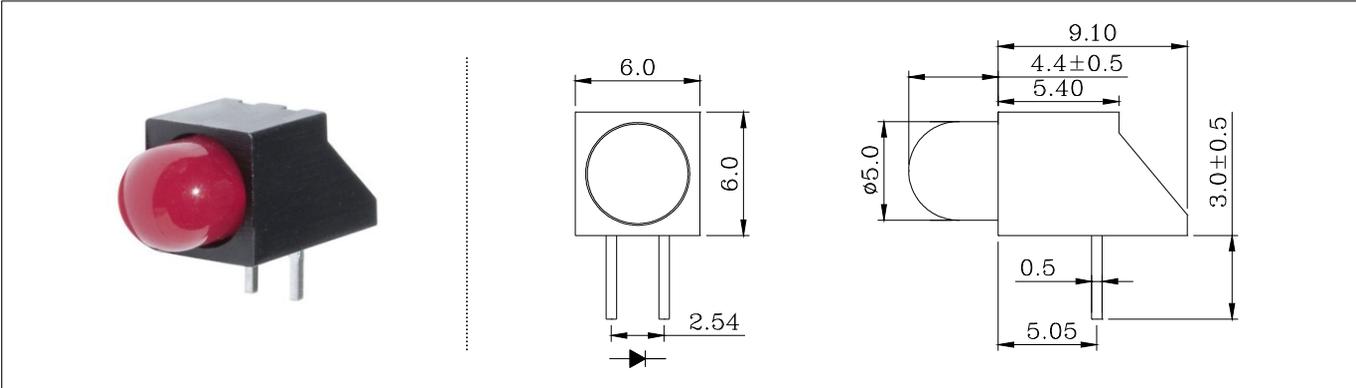
Part No	LED Lamp	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-H511005B	L-519GYW	GaP	Yellow Green	White Diffused	570	2.2	2.6	18	120
		GaAsP	Yellow		587	2.1	2.6	15	120
L-H511006B	L-519EGW	GaAsP	Orange	White Diffused	628	2.1	2.6	30	120
		GaP	Yellow Green		570	2.2	2.6	18	120
L-H511007B	L-519SRGW	GaAlAs	Red	White Diffused	640	1.8	2.2	40	120
		GaP	Yellow Green		570	2.2	2.8	20	120

L-H512XXXX -5.0mm LED LAMP WITH LHY5001-1 HOLDER



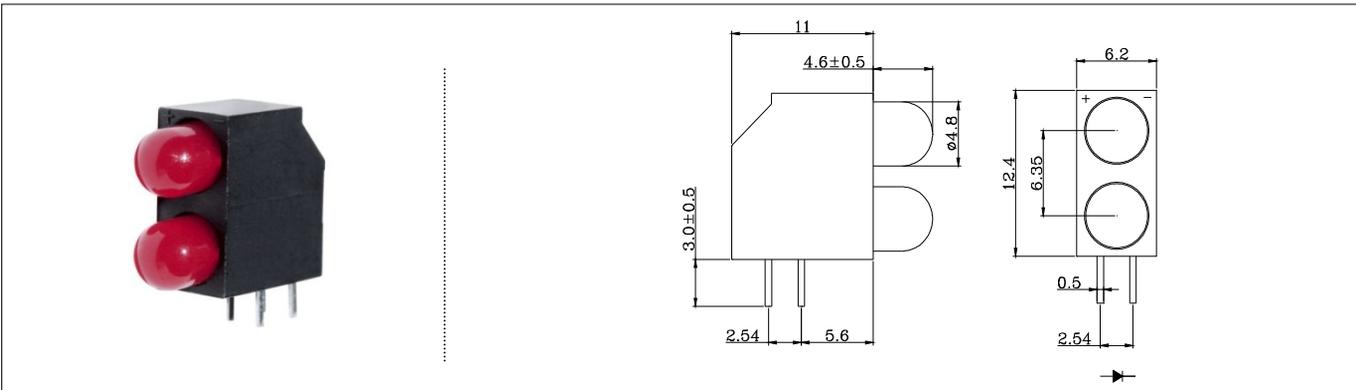
Part No	LED Lamp	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-H512005B	A=L-503GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	20	110
L-H512006B	A=L-503YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	15	110
L-H512007B	A=L-503ED	GaAsP	Orange	Red Diffused	628	2.1	2.6	25	110
L-H512008B	A=L-503SRD	GaAlAs	Red	Red Diffused	640	1.8	2.2	50	110

L-H513XXXX -5.0mm LED LAMP WITH LHY5001-1 HOLDER



Part No	LED Lamp	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-H513005B	A=L-523GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	15	110
L-H513006B	A=L-523YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	14	110
L-H513007B	A=L-523ED	GaAsP	Orange	Red Diffused	628	2.1	2.6	25	110
L-H513008B	A=L-523SRD	GaAlAs	Red	Red Diffused	640	1.8	2.2	50	110

L-H523XXXX -5.0mm LED LAMP WITH LHY506 HOLDER



Part No	LED Lamp	Chip		Lens Color	Wave length λ_D (nm)	Electro-optical characteristics			View Angle (deg.)
		Raw Material	Emitted Color			VF(V)20mA		IV(mcd)20mA	
						Typ.	Max.	Typ.	
L-H523005B	A=L-523GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	15	110
	B=L-523GD	GaP	Yellow Green	Green Diffused	570	2.2	2.6	15	110
L-H523006B	A=L-523YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	14	110
	B=L-523YD	GaAsP	Yellow	Yellow Diffused	587	2.1	2.6	14	110