

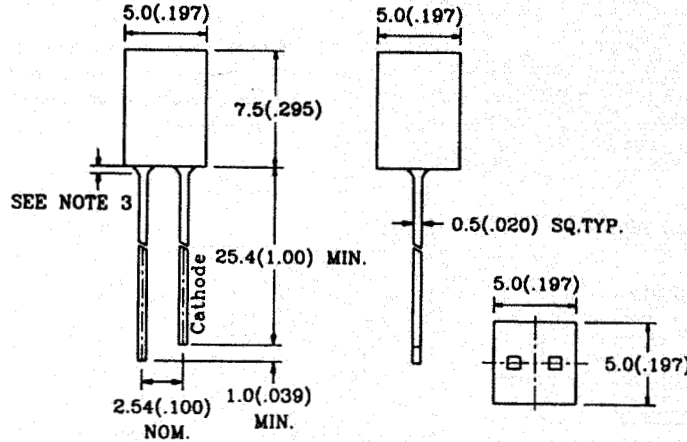
L-663XX series ...

5.0x5.0mm SQUARE LED LAMP

MAIN FEATURES :

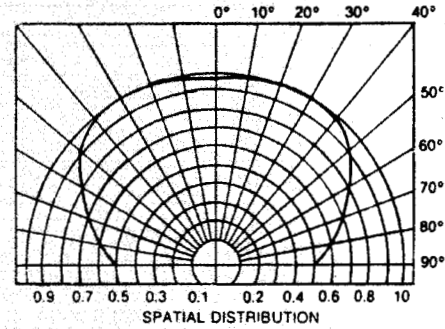
- ⊙ 5.0x5.0mm SQUARE LED LAMP
- ⊙ STANDARD 1" LEAD
- ⊙ I.C. COMPATIBLE
- ⊙ LONG LIFE-SOLID STATE RELIABILITY
- ⊙ LOW POWER CONSUMPTION

◆ PACKAGE DIMENSIONS



Notes:

1. All Dimension are in millimeter.
2. Tolerance is $\pm 0.25\text{mm}(0.010")$ unless otherwise specified.
3. Protruded resin under flange is 1.5mm(0.59") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specification are subject to change without notice.



◆ SELECTION GUIDE AND APPLICATION INFORMATION (RATINGS AT 25°C AMBIENT)

Part No.	Chip		Lens Color	Wave Length λ (nm)	Absolute Maximum Ratings				Electro-Optical Characteristics					View Angle (deg)	
	Raw Material	Emitted Color			$\Delta\lambda$ (nm)	Pd (mW)	If (mA)	If (Peak)	Vf (V) Min.	Vf (V) Typ.	Vf (V) Max.	If (Rec)	Iv (mcd) Min.		Iv (mcd) Typ.
L-663HD	GaP	Bright Red	Red Diffused	700	90	45	15	50	1.7	2.1	2.8	5~10	0.8	1.5	150
L-663ED	GaAsP/GaP	Hi. effi Red	Red Diffused	635	45	100	30	160	1.7	2.0	2.8	10~20	3.0	12.0	150
L-663ED-E	GaAsP/GaP	Orange	Orange Diffused	635	45	100	30	160	1.7	2.0	2.8	10~20	3.0	12.0	150
L-663GD	GaP	Green	Green Diffused	565	30	100	30	160	1.7	2.1	2.8	10~20	2.0	10.0	150
L-663YD	GaAsP/GaP	Yellow	Yellow Diffused	585	30	100	30	160	1.7	2.1	2.8	10~20	2.0	10.0	150
L-663AD	GaAsP/GaP	Amber	Amber Diffused	585	30	100	30	160	1.7	2.1	2.8	10~20	2.0	10.0	150
L-663I D	GaAlAs	Hi. effi Red	Red Diffused	625	20	60	20	160	1.6	1.8	2.1	10~20	12.0	30.0	150
L-663SRD	GaAlAs	Super Red	Red Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	30.0	80.0	150
L-663LRD	GaAlAs	Super Red	Red Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	80.0	120	150
L-663URD	GaAlAs	Super Red	Red Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	120	200	150
L-663HDT	GaP	Bright Red	Red Trans.+Diff.	700	90	45	15	50	1.7	2.1	2.8	5~10	0.8	1.5	150
L-663EDT	GaAsP/GaP	Hi. effi Red	Red Trans.+Diff.	635	45	100	30	160	1.7	2.0	2.8	10~20	3.0	12.0	150
L-663EDT-E	GaAsP/GaP	Orange	Orange Trans.+Diff.	635	45	100	30	160	1.7	2.0	2.8	10~20	3.0	12.0	150
L-663GDT	GaP	Green	Green Trans.+Diff.	565	30	100	30	160	1.7	2.1	2.8	10~20	2.0	10.0	150
L-663YDT	GaAsP/GaP	Yellow	Yellow Trans.+Diff.	585	30	100	30	160	1.7	2.1	2.8	10~20	2.0	10.0	150
L-663ADT	GaAsP/GaP	Amber	Amber Trans.+Diff.	585	30	100	30	160	1.7	2.1	2.8	10~20	2.0	10.0	150
L-663I DT	GaAlAs	Hi. effi Red	Red Trans.+Diff.	625	20	60	20	160	1.6	1.8	2.1	10~20	12.0	30.0	150
L-663SRDT	GaAlAs	Super Red	Red Trans.+Diff.	660	20	60	20	160	1.6	1.8	2.1	10~20	30.0	80.0	150
L-663LRDT	GaAlAs	Super Red	Red Trans.+Diff.	660	20	60	20	160	1.6	1.8	2.1	10~20	80.0	120	150
L-663URDT	GaAlAs	Super Red	Red Trans.+Diff.	660	20	60	20	160	1.6	1.8	2.1	10~20	120	200	150

Remark 1: Trans.+Diff. :Body Transparent & Top Diffused

◆ ABSOLUTE MAXIMUM RATING: (Ta=25°C)

Reverse Voltage	: 5 Volt
Reverse Current(Vr = 5V)	: 10 μ A
Operating Temperature Range	: -40°C to +85°C
Storage Temperature Range	: -40°C to +100°C
Lead Soldering Temperature	: 260°C for 5 Seconds
(1.6mm(1/16inch) from body)	

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

Para meter Description	Symbol	Unit
Spectral Line half-Width	$\Delta\lambda$	nm
Power Dissipation	Pd	mW
Peak Forward Current (Duty 1/10,@KHz)	If(Peak)	mA
Recommended Operation Current	If(Rec)	mA
Average Luminous intensity (If = 10mA)	Iv	mcd