

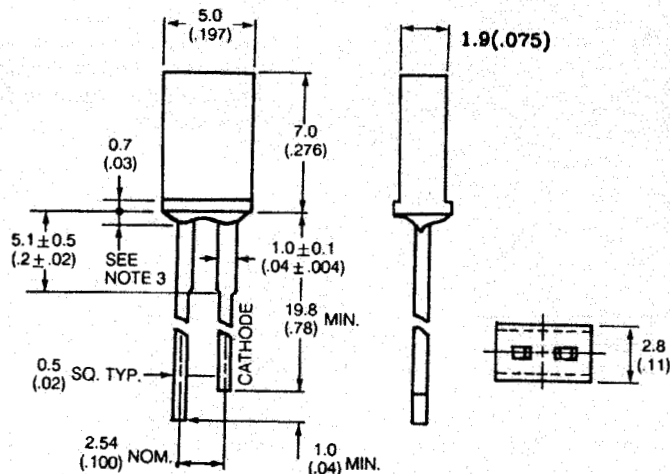
L-411XD series ...

2.0x5.0x7.0mm Rectangular LED LAMP-

MAIN FEATURES :

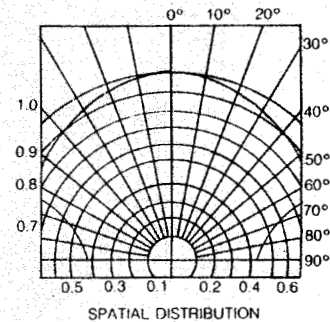
- ⊙ 2.0x5.0x7.0mm Rectangular LED LAMP
- ⊙ 0.8" STAND OFF LEAD
- ⊙ I.C. COMPATIBLE
- ⊙ LOW POWER CONSUMPTION
- ⊙ WIDE ANGLE

◆ PACKAGE DIMENSIONS



Notes:

1. All Dimension are in millimeter.
2. Tolerance is $\pm 0.25\text{mm}(0.010\text{'})$ unless otherwise specified.
3. Protruded resin under flange is 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 p(nm)	Absolute Maximum Ratings				Electro-Optical Characteristics			Angle (deg)			
	Raw Material	Emitted Color			$\Delta\lambda$	Pd	If	If (Peak)	Vf(V)	If	Iv (mcd)				
					nm	mW	mA		Min.	Typ.	Max.	(Rec)	Min.	Typ.	
L-411RD	GaAsP	Red	Red Diffused	655	40	110	40	200	1.5	1.7	2.0	10~20	0.5	1.2	150
L-411HD	GaP	Bright Red	Red Diffused	700	90	45	15	50	1.7	2.1	2.8	5~10	0.8	1.8	150
L-411ED	GaAsP/GaP	Hi. effi Red	Red Diffused	635	45	100	30	160	1.7	2.0	2.8	10~20	1.8	5.0	150
L-411ED-E	GaAsP/GaP	Orange	Orange Diffused	635	45	100	30	160	1.7	2.0	2.8	10~20	1.8	5.0	150
L-411GD	GaP	Green	Green Diffused	565	30	100	30	160	1.7	2.1	2.8	10~20	1.8	4.5	150
L-411YD	GaAsP/GaP	Yellow	Yellow Diffused	585	30	100	30	160	1.7	2.1	2.8	10~20	1.8	4.5	150
L-411AD	GaAsP/GaP	Amber	Amber Diffused	585	30	100	30	160	1.7	2.1	2.8	10~20	1.8	4.5	150
L-411SRD	GaAlAs	Super Red	Red Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	5.0	15.0	150
L-411LRD	GaAlAs	Super Red	Red Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	15.0	45.0	150
L-411URD	GaAlAs	Super Red	Red Diffused	660	20	60	20	160	1.6	1.8	2.1	10~20	45.0	75.0	150

◆ 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)

Parameter 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