

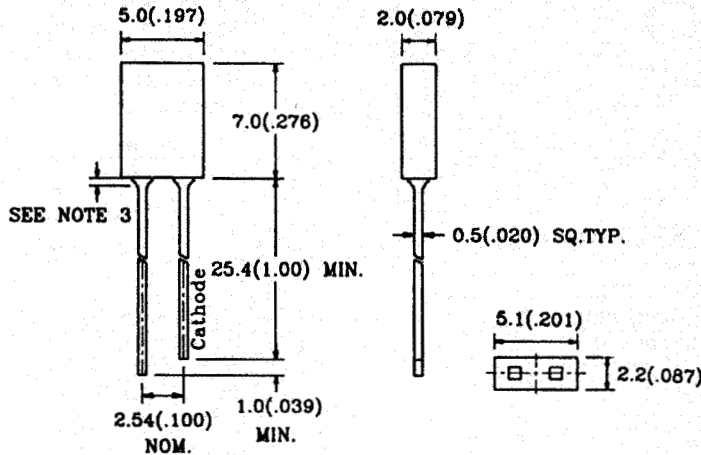
L-4M3XD series ...

2.0x5.0x7.0mm Rectangular LED LAMP

MAIN FEATURES :

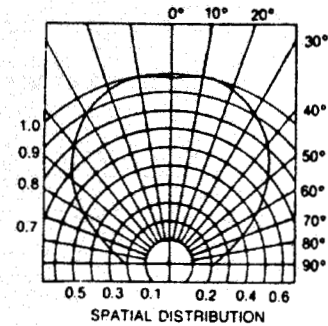
- ⊙ 2.0x5.0x7.0mm Rectangular LED LAMP
- ⊙ STANDARD 1" LEAD
- ⊙ I.C. COMPATIBLE
- ⊙ LONG LIFE-SOLID STATE RELIABILITY
- ⊙ LOW POWER CONSUMPTION

◆ PACKAGE DIMENSIONS



Notes:

1. All Dimension are in millimeter.
2. Tolerance is $\pm 0.25\text{mm}(0.010\text{'})$ 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 p(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) | | | | If (mcd) | | |
| | | | | | | | | Min. | Typ. | Max. | (Rec) | Min. | Typ. | | |
| L-4M3RD | GaAsP/GaP | Hi. effi Red | Red Diffused | 655 | 40 | 110 | 40 | 200 | 1.5 | 1.7 | 2.0 | 10~20 | 0.5 | 1.5 | 120 |
| L-4M3HD | GaAsP/GaP | Hi. effi Red | Red Diffused | 700 | 90 | 45 | 15 | 50 | 1.7 | 2.1 | 2.8 | 5~10 | 0.8 | 2.0 | 120 |
| L-4M3ED | GaAsP/GaP | Hi. effi Red | Red Diffused | 635 | 45 | 100 | 30 | 160 | 1.7 | 2.0 | 2.8 | 10~20 | 3.0 | 10.0 | 120 |
| L-4M3ED-E | GaAsP/GaP | Orange | Orange Diffused | 635 | 45 | 100 | 30 | 160 | 1.7 | 2.0 | 2.8 | 10~20 | 3.0 | 10.0 | 120 |
| L-4M3GD | GaP | Green | Green Diffused | 565 | 30 | 100 | 30 | 160 | 1.7 | 2.1 | 2.8 | 10~20 | 2.0 | 8.0 | 120 |
| L-4M3YD | GaAsP/GaP | Yellow | Yellow Diffused | 585 | 30 | 100 | 30 | 160 | 1.7 | 2.1 | 2.8 | 10~20 | 2.0 | 8.0 | 120 |
| L-4M3AD | GaAsP/GaP | Amber | Amber Diffused | 585 | 30 | 100 | 30 | 160 | 1.7 | 2.1 | 2.8 | 10~20 | 2.0 | 8.0 | 120 |
| L-4M3I D | GaAlAs | Hi. effi Red | Red Diffused | 625 | 20 | 60 | 20 | 160 | 1.6 | 1.8 | 2.1 | 10~20 | 10.0 | 30.0 | 120 |
| L-4M3SRD | GaAlAs | Super Red | Red Diffused | 660 | 20 | 60 | 20 | 160 | 1.6 | 1.8 | 2.1 | 10~20 | 30.0 | 80.0 | 120 |
| L-4M3LRD | GaAlAs | Super Red | Red Diffused | 660 | 20 | 60 | 20 | 160 | 1.6 | 1.8 | 2.1 | 10~20 | 80.0 | 120 | 120 |
| L-4M3URD | GaAlAs | Super Red | Red Diffused | 660 | 20 | 60 | 20 | 160 | 1.6 | 1.8 | 2.1 | 10~20 | 120 | 200 | 120 |

◆ 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 |