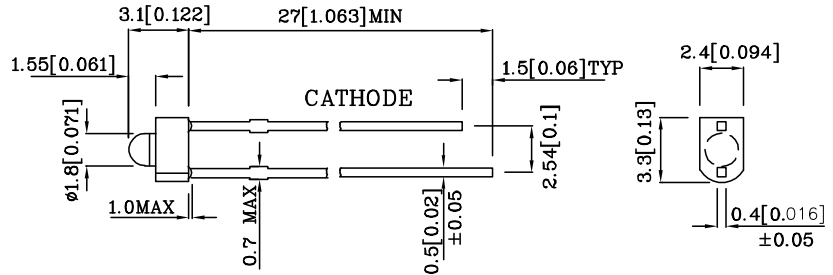


Features

- 1.8mm DIAMETER SMALL SIZE LED LAMP.
- ULTRA BRIGHTNESS IS AVAILABLE.
- RELIABLE AND RUGGED.
- VERSATILE MOUNTING ON P. C. BOARD OR PANEL.
- RoHS COMPLIANT.



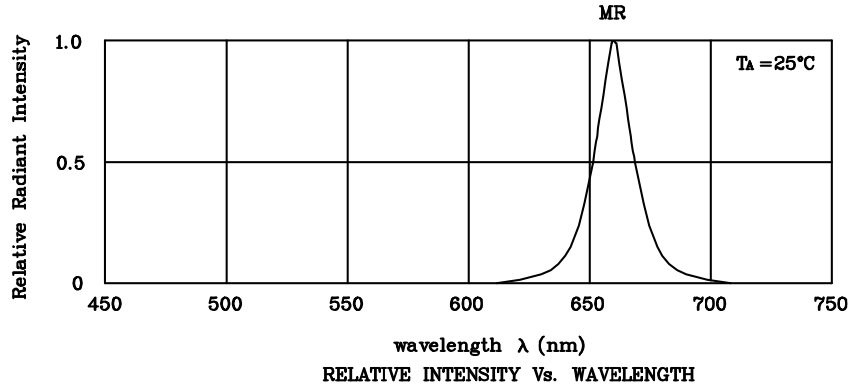
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25(0.01") unless otherwise noted.

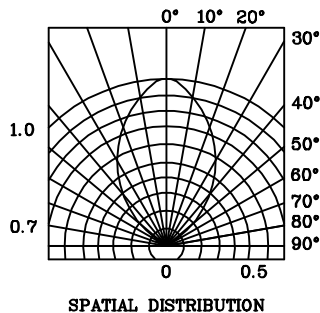
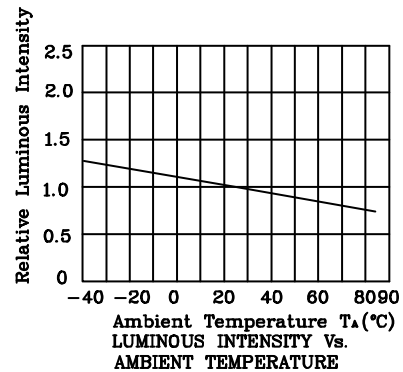
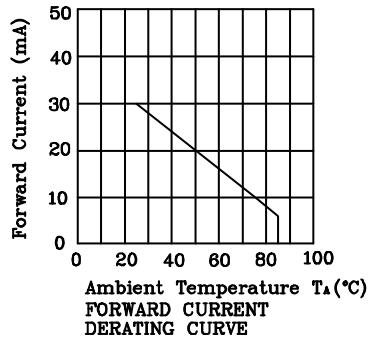
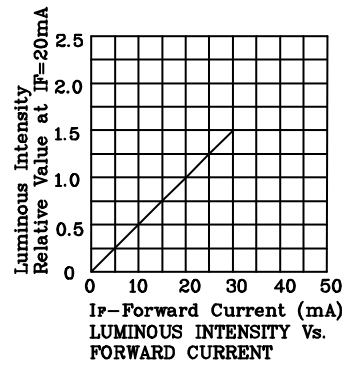
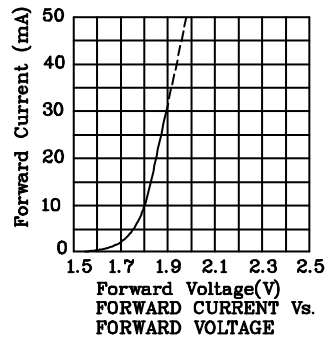
| Absolute Maximum Ratings (TA=25°C) | | MR (GaAlAs) | Unit |
|----------------------------------------------------------------|---------------------|----------------|------|
| Reverse Voltage | VR | 5 | V |
| Forward Current | IF | 30 | mA |
| Forward Current (peak) 1/10 Duty Cycle 0.1ms Pulse Width | iFS | 155 | mA |
| Power Dissipation | Pr | 100 | mW |
| Operating Temperature | TA | -40 ~ +85 | °C |
| Storage Temperature | Tstg | -40 ~ +85 | |
| Lead Solder Temperature [2mm below package base] | 260°C For 3 Seconds | | |
| Lead Solder Temperature [3mm below package base] | 260°C For 5 Seconds | | |

| Operating Characteristics (TA=25°C) | | MR (GaAlAs) | Unit |
|----------------------------------------------------------|-----|----------------|------|
| Forward Voltage (typ.) (IF=20mA) | VF | 1.85 | V |
| Forward Voltage (max.) (IF=20mA) | VF | 2.5 | V |
| Reverse Current (VR=5V) | IR | 10 | uA |
| Wavelength of Peak Emission (IF=20mA) | λ P | 660 | nm |
| Wavelength of Dominant Emission (IF=20mA) | λ D | 640 | nm |
| Spectral Line Full Width At Half-Maximum (IF=20mA) | Δλ | 20 | nm |
| Capacitance (VF=0V, f=1MHz) | C | 45 | pF |

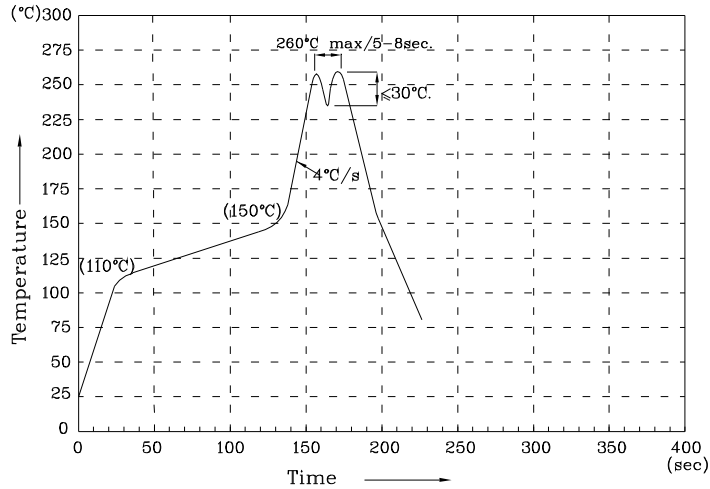
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (IF=20mA) mcd | | Wavelength nm λ P | Viewing Angle 2 θ 1/2 |
|-------------|----------------|-------------------|--------------|----------------------------------------|------|-------------------------|--------------------------|
| | | | | min. | typ. | | |
| XLMR61D | Red | GaAlAs | Red Diffused | 70 | 198 | 660 | 70° |



❖ MR



Wave Soldering Profile For Lead-free Through-hole LED.



NOTES:

- 1.Recommend the wave temperature 245°C~260°C.The maximum soldering temperature should be less than 260°C.
- 2.Do not apply stress on epoxy resins when temperature is over 85 degree°C.
- 3.The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
- 4.No more than once.

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.