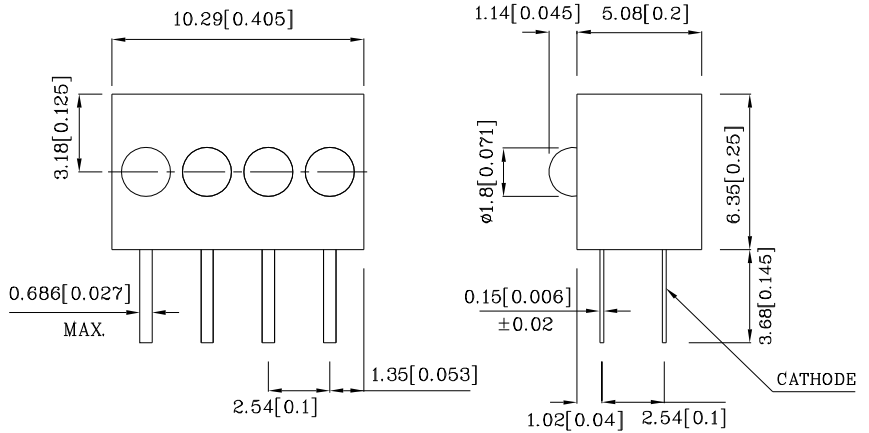


Features

- BLACK CASE ENHANCES CONTRAST.
- VIBRATION AND SHOCK RESISTANT.
- AVAILABLE WITH A VARIETY OF LEDs.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- 5V INTERNAL RESISTOR.
- RoHS COMPLIANT.



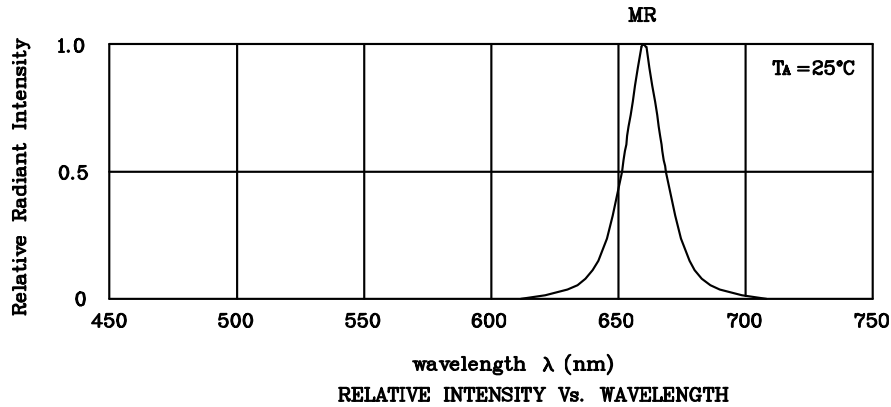
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.

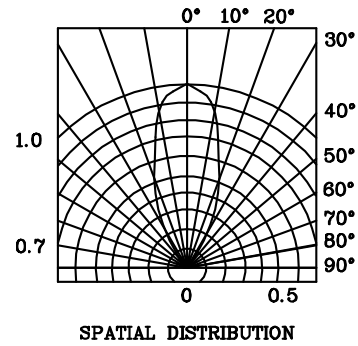
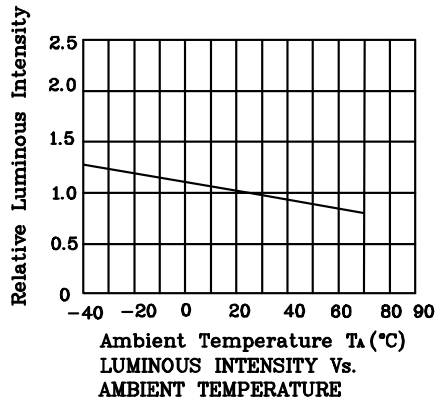
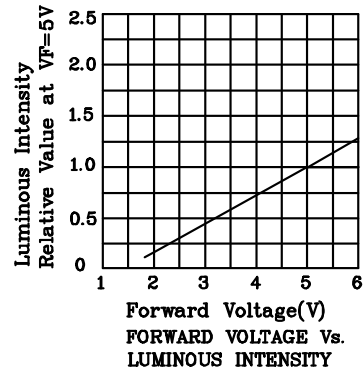
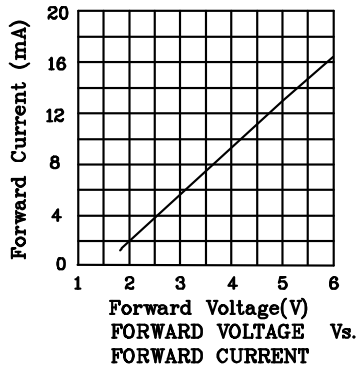
| Absolute maximum ratings (TA=25°C) | | MR (GaAlAs) | Unit |
|---|---------------------|----------------|------|
| Reverse Voltage | VR | 5 | V |
| Forward Current | VF | 6 | V |
| Power Dissipation | PT | 85 | mW |
| Operating Temperature | TA | -40 ~ +70 | °C |
| Storage Temperature | Tstg | -40 ~ +85 | |
| Lead Solder Temperature [2mm Below Package Base] | 260°C For 3 Seconds | | |
| Lead Solder Temperature [5mm Below Package Base] | 260°C For 5 Seconds | | |

| Operating Characteristics (TA=25°C) | | MR (GaAlAs) | Unit |
|--|-----------------|----------------|------|
| Forward Voltage (Typ.) (VF=5V) | IF | 13 | mA |
| Forward Voltage (Max.) (VF=5V) | IF | 17.5 | mA |
| Reverse Current (VR=5V) | IR | 10 | uA |
| Wavelength of Peak Emission (VF=5V) | λp | 660 | nm |
| Wavelength of Dominant Emission (VF=5V) | λD | 640 | nm |
| Spectral Line Full Width At Half-Maximum (VF=5V) | $\Delta\lambda$ | 20 | nm |

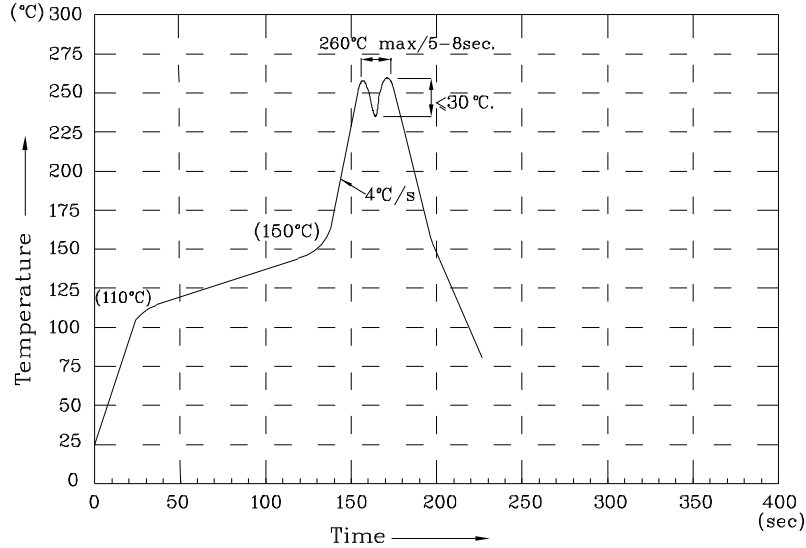
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (V=5V) mcd | | Wavelength nm λP | Viewing Angle 2 θ 1/2 |
|---|----------------|-------------------|--------------|-------------------------------------|------|---------------------------------|---------------------------------|
| | | | | min. | typ. | | |
| XNF4ZMR46D5V | Red | GaAlAs | Red Diffused | 40 | 148 | 660 | 40° |
| Published Date : MAY 28,2005 Drawing No : XDSA2728 V3 Checked : B.L.LIU P.1/3 | | | | | | | |



❖ 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 luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%

Note: Accuracy may depend on the sorting parameters.