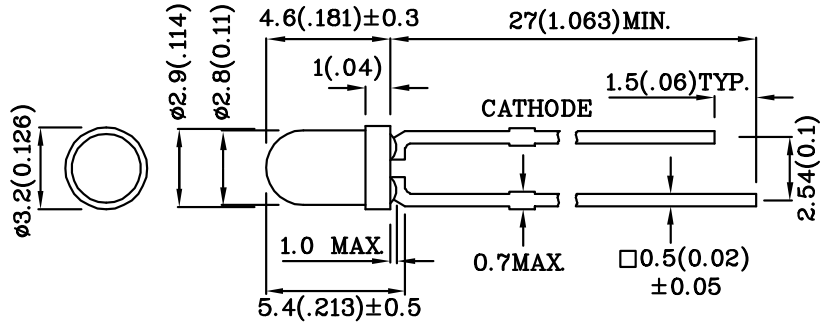


Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- LOW CURRENT IF=2mA OPERATING.



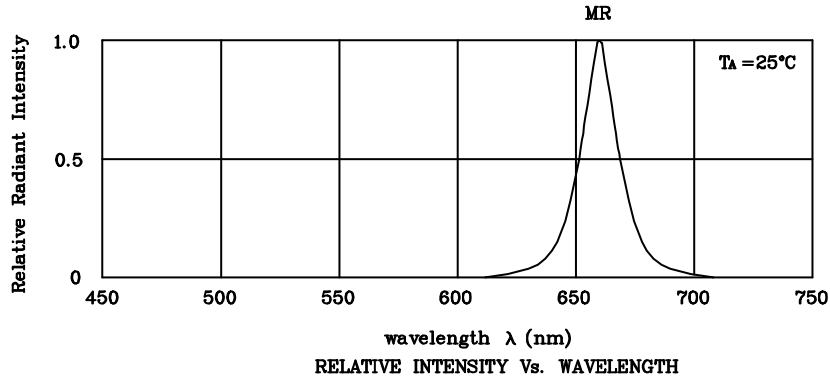
Notes:

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

| Absolute maximum ratings<br>(TA=25°C)                         |                     | MR<br>(GaAlAs) | Unit |
|---|---------------------|----------------|------|
| Reverse voltage   | VR                  | 5              | V    |
| Forward current   | IF                  | 30             | mA   |
| Forward current (peak)<br>1/10Duty cycle<br>0.1ms pulse width | iFS                 | 155            | mA   |
| Power dissipation   | PT                  | 100            | mW   |
| Operating temperature   | TA                  | -40 ~ +85      | °C   |
| Storage temperature   | Tstg                | -40 ~ +85      |      |
| Lead solder temperature<br>[2mm below package base]           | 260°C For 5 Seconds |                |      |

| Operating Characteristics<br>(TA=25°C)         |                 | MR<br>(GaAlAs) | Unit |
|--|-----------------|----------------|------|
| Forward voltage (typ.)<br>(IF=2mA)             | VF              | 1.65           | V    |
| Forward voltage (max.)<br>(IF=2mA)             | VF              | 2.5            | V    |
| Reverse current<br>(VR=5V)                     | IR              | 10             | uA   |
| Wavelength at peak<br>emission<br>(IF=2mA)     | $\lambda$ peak  | 660            | nm   |
| Wavelength at Dominate<br>emission<br>(IF=2mA) | $\lambda$ D     | 640            | nm   |
| Spectral Line half-width<br>(IF=2mA)           | $\Delta\lambda$ | 20             | nm   |
| Capacitance<br>(VF=0V, f=1MHz)                 | C               | 45             | pF   |

| Part Number                  | Emitting Color | Emitting Material | Lens-color   | Luminous Intensity<br>(IF=2mA)<br>mcd |      | Wavelength<br>nm<br>$\lambda$ P | Viewing Angle<br>2 $\theta$ 1/2 |
|------------------------------|----------------|-------------------|--------------|---------------------------------------|------|---------------------------------|---------------------------------|
|                              |                |                   |              | min.                                  | typ. |                                 |                                 |
| XCMR32D                      | Red            | GaAlAs            | Red Diffused | 8                                     | 18   | 660                             | 60°                             |
| Published Date : SEP 08,2003 |                |                   |              | Drawing No : XDSA2609                 |      | V2 Checked : B.L.LIU P.1/2      |                                 |



❖ MR

