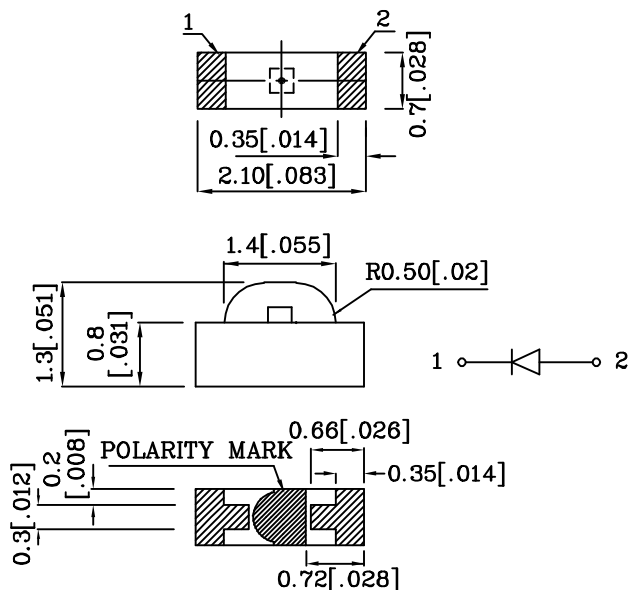


## Features

- 2.1mmx0.7mm RIGHT ANGLE SMT LED, 1.3mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.
- ROHS COMPLIANT.

Notes:

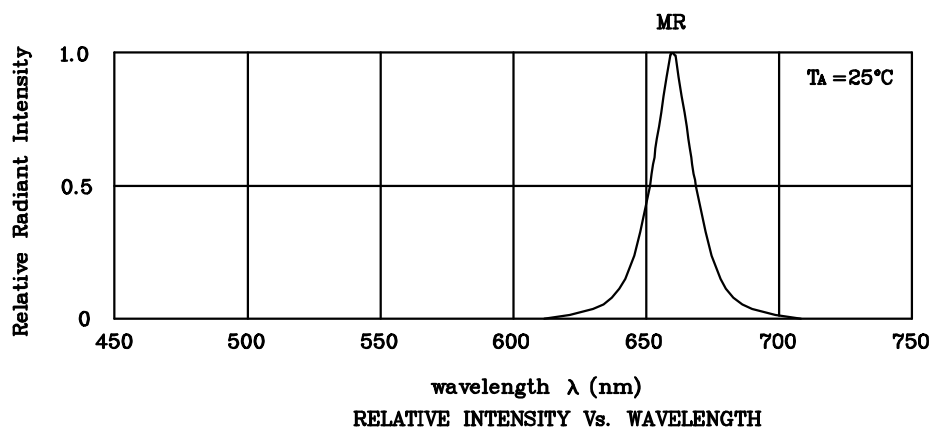
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.15(0.006")$  unless otherwise noted.



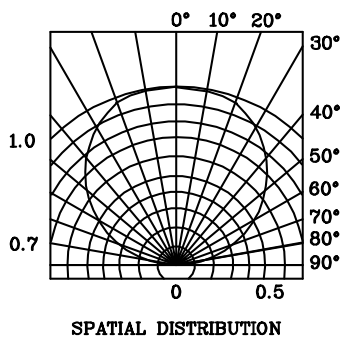
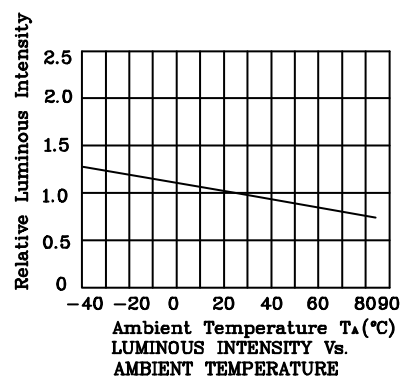
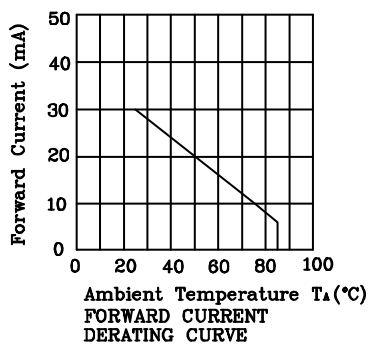
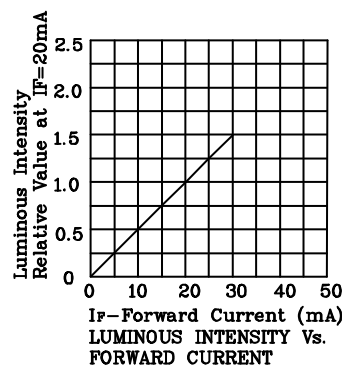
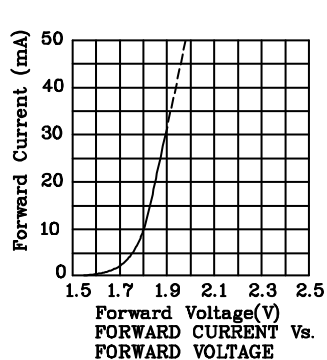
| Absolute maximum ratings<br>(TA=25°C)                         |      | MR<br>(GaAlAs) | Unit |
|---------------------------------------------------------------|------|----------------|------|
| Reverse voltage                                               | VR   | 5              | V    |
| Forward 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      |      |

| Operating Characteristics<br>(T <sub>A</sub> =25°C)          |                | MR<br>(GaAlAs) | Unit |
|--------------------------------------------------------------|----------------|----------------|------|
| Forward voltage (typ.)<br>(I <sub>F</sub> =20mA)             | V <sub>F</sub> | 1.85           | V    |
| Forward voltage (max.)<br>(I <sub>F</sub> =20mA)             | V <sub>F</sub> | 2.5            | V    |
| Reverse current<br>(V <sub>R</sub> =5V)                      | I <sub>R</sub> | 10             | uA   |
| Wavelength at peak<br>emission<br>(I <sub>F</sub> =20mA)     | λ peak         | 660            | nm   |
| Wavelength at Dominate<br>emission<br>(I <sub>F</sub> =20mA) | λ D            | 640            | nm   |
| Spectral Line half-width<br>(I <sub>F</sub> =20mA)           | Δλ             | 20             | nm   |
| Capacitance<br>(V <sub>F</sub> =0V, f=1MHz)                  | C              | 45             | pF   |

| Part Number                  | Emitting Color | Emitting Material    | Lens-color  | Luminous Intensity (IF=20mA)<br>mcd | Wavelength<br>nm<br>λ P | Viewing Angle<br>2 θ 1/2 |       |
|------------------------------|----------------|----------------------|-------------|-------------------------------------|-------------------------|--------------------------|-------|
|                              |                |                      |             | min.                                | typ.                    |                          |       |
| XZMR65WA                     | Red            | GaAlAs               | Water Clear | 50                                  | 95                      | 660                      | 120°  |
|                              |                |                      |             |                                     |                         |                          |       |
| Published Date : OCT 16,2004 |                | Drawing No :XDSA1443 |             | V4                                  | Checked : B.L.LIU       |                          | P.1/3 |

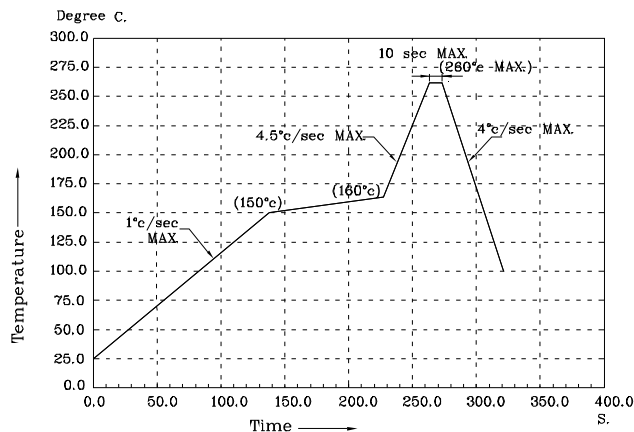


❖ MR



### ❖ SMT Reflow Soldering Instructions

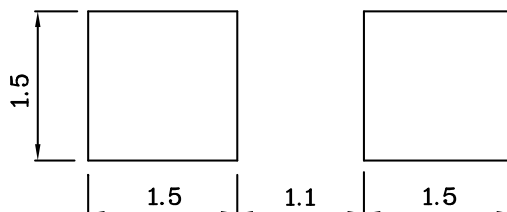
#### REFLOW SOLDERING INSTRUCTIONS FOR LEAD-FREE SMT PROCESS



#### NOTES:

- 1, We recommend the reflow temperature 245°C~260°C. The maximum soldering temperature should be limited to 260°C.
- 2, Don't cause stress to the epoxy resin while it is exposed to high temperature.

### ❖ Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



### ❖ Tape Specification (Units : mm)

