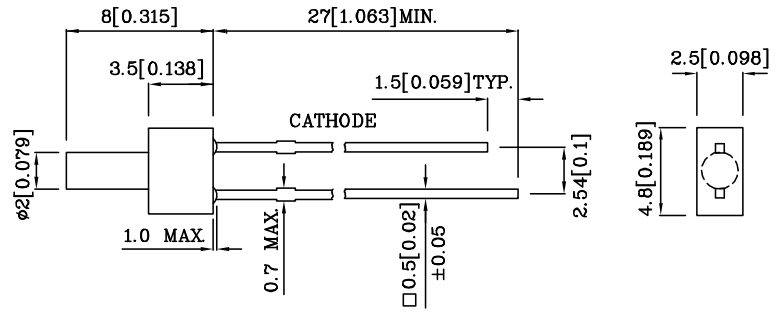


**Features**

- MOUNTS FLUSH WITH PANEL.
- LOW POWER CONSUMPTION.
- SUITABLE FOR AUDIO PANEL INDICATOR.
- FITS 2mm HOLE IN PANEL UP TO 3.5mm (.138").
- LONG LIFE - SOLID STATE RELIABILITY.
- RoHS COMPLIANT.



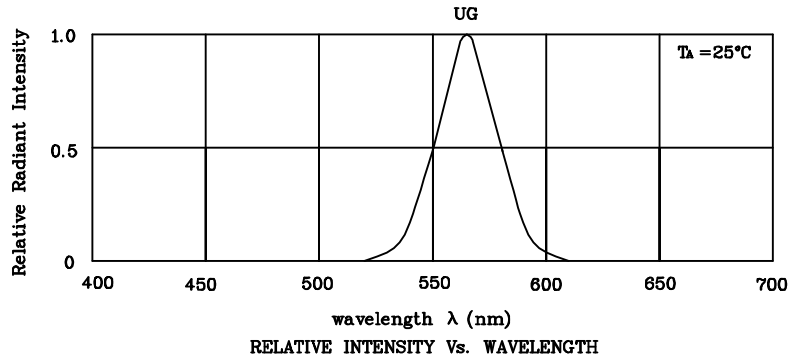
Notes:

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

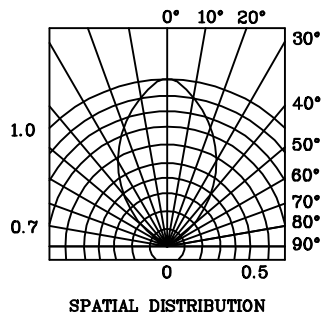
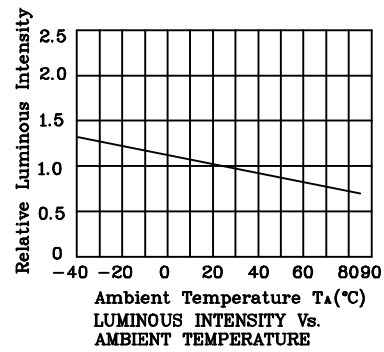
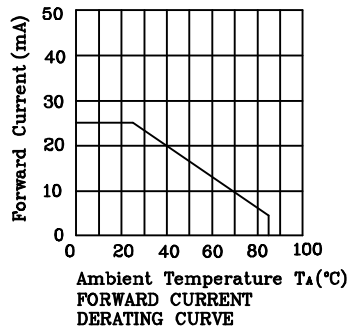
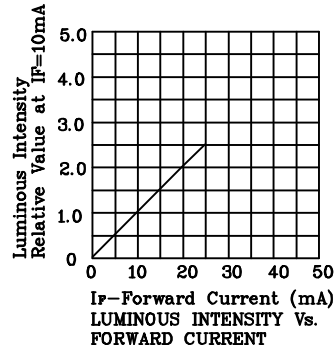
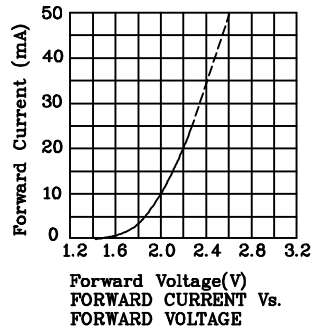
| Absolute Maximum Ratings<br>(TA=25°C)                          |                     | UG<br>(GaP) | Unit |
|--|---------------------|-------------|------|
| Reverse Voltage  | VR                  | 5           | V    |
| Forward Current  | IF                  | 25          | mA   |
| Forward Current (peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | iFS                 | 140         | mA   |
| Power Dissipation  | PT                  | 105         | mW   |
| Operating Temperature  | TA                  | -40 ~ +85   | °C   |
| Storage Temperature  | Tstg                | -40 ~ +85   |      |
| Lead Solder Temperature<br>[2mm below package base]            | 260°C For 3 Seconds |             |      |
| Lead Solder Temperature<br>[5mm below package base]            | 260°C For 5 Seconds |             |      |

| Operating Characteristics<br>(TA=25°C)                   |                 | UG<br>(GaP) | Unit |
|--|-----------------|-------------|------|
| Forward Voltage (typ.)<br>(IF=10mA)                      | VF              | 2.0         | V    |
| Forward Voltage (max.)<br>(IF=10mA)                      | VF              | 2.5         | V    |
| Reverse Current<br>(VR=5V)                               | IR              | 10          | uA   |
| Wavelength of Peak<br>Emission<br>(IF=10mA)              | $\lambda P$     | 565         | nm   |
| Wavelength of Dominant<br>Emission<br>(IF=10mA)          | $\lambda D$     | 568         | nm   |
| Spectral Line Full Width<br>At Half-Maximum<br>(IF=10mA) | $\Delta\lambda$ | 30          | nm   |
| Capacitance<br>(VF=0V, f=1MHz)                           | C               | 15          | pF   |

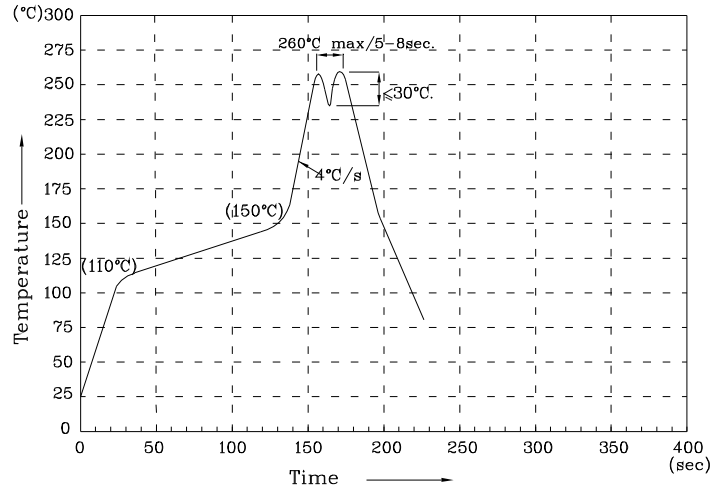
| Part Number  | Emitting Color | Emitting Material | Lens-color     | Luminous Intensity<br>(IF=10mA)<br>mcd |      | Wavelength<br>nm<br>$\lambda P$ | Viewing Angle<br>2 $\theta$ 1/2 |
|--|----------------|-------------------|----------------|--|------|---------------------------------|---------------------------------|
|  |                |                   |                | min.                                   | typ. |                                 |                                 |
| XLUG13D  | Green          | GaP               | Green Diffused | 3                                      | 9    | 565                             | 70°                             |
| Published Date : MAY 21, 2005      Drawing No : XDSA2307      V3      Checked : B.L.LIU      P.1/3 |                |                   |                |  |      |                                 |                                 |



❖ UG



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.