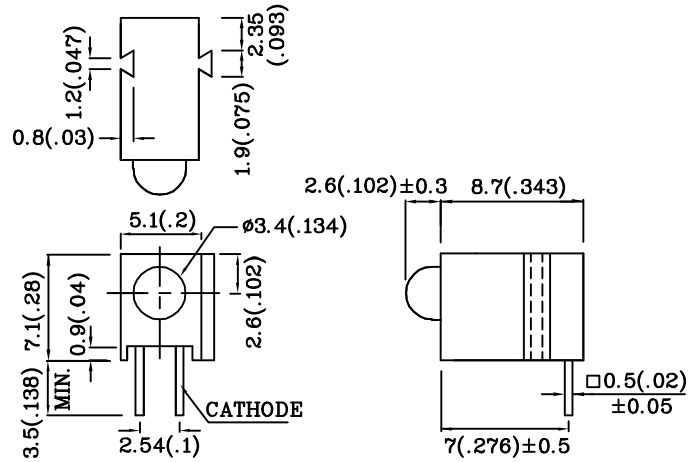


Features

- PRE-TRIMMED LEADS FOR PC MOUNTING.
- CAN BE ASSEMBLED WITH EACH OTHER.
- I.C. COMPATIBLE.
- BLACK CASE ENHANCES CONTRAST RATIO.
- WIDE VIEWING ANGLE.
- HIGH RELIABILITY LIFE MEASURED IN YEARS.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.



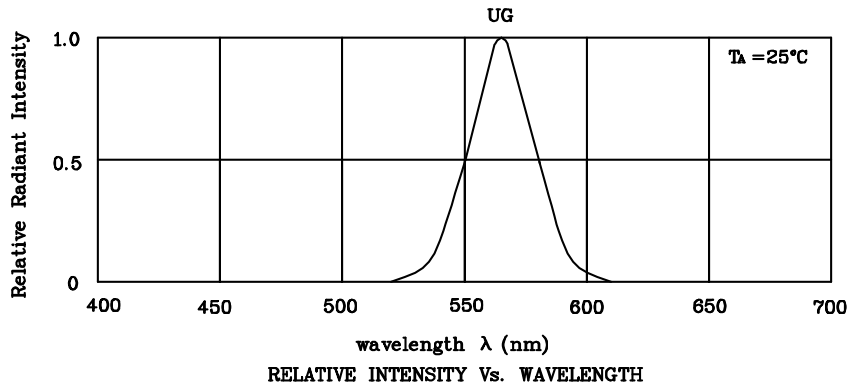
Notes:

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

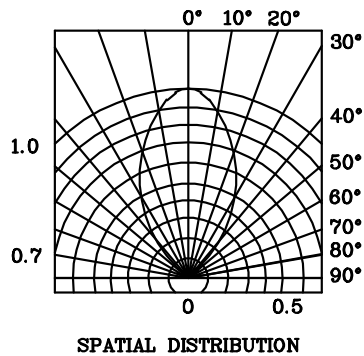
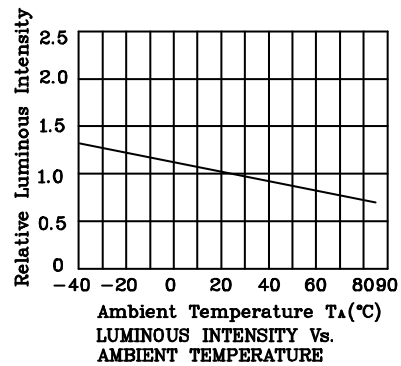
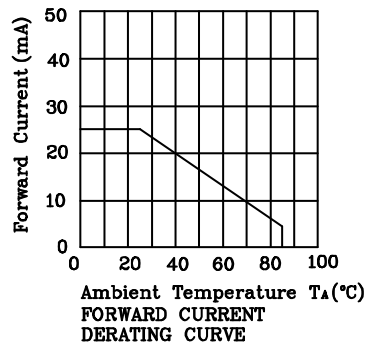
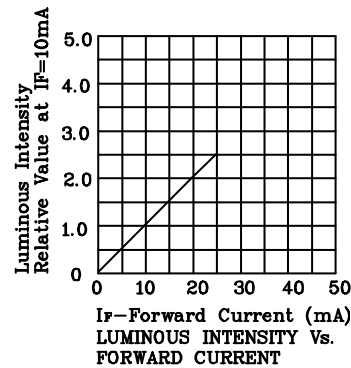
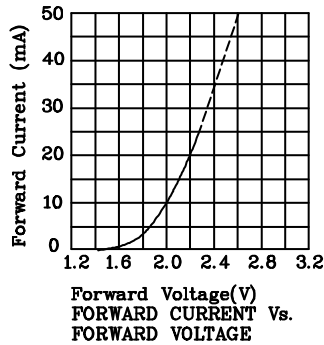
| Absolute maximum ratings (TA=25°C) | | UG (GaP) | Unit |
|---|---------------------|-------------|------|
| Reverse Voltage | VR | 5 | V |
| Forward Current | IF | 25 | mA |
| Forward Current (peak) 1/10Duty Cycle 0.1ms Pulse Width | iFS | 140 | mA |
| Power Dissipation | PT | 105 | mW |
| Operating Temperature | TA | -40 ~ +85 | °C |
| Storage Temperature | Tstg | -40 ~ +85 | |
| Lead Solder Temperature [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) | | UG (GaP) | Unit |
|--|-----------------|-------------|------|
| Forward Voltage (typ.) (IF=10mA) | VF | 2.0 | V |
| Forward Voltage (max.) (IF=10mA) | VF | 2.5 | V |
| Reverse Current (VR=5V) | IR | 10 | uA |
| Wavelength of Peak Emission (IF=10mA) | λP | 565 | nm |
| Wavelength of Dominant Emission (IF=10mA) | λD | 568 | nm |
| Spectral Line Full Width At Half-Maximum (IF=10mA) | $\Delta\lambda$ | 30 | nm |
| Capacitance (VF=0V, f=1MHz) | C | 15 | pF |

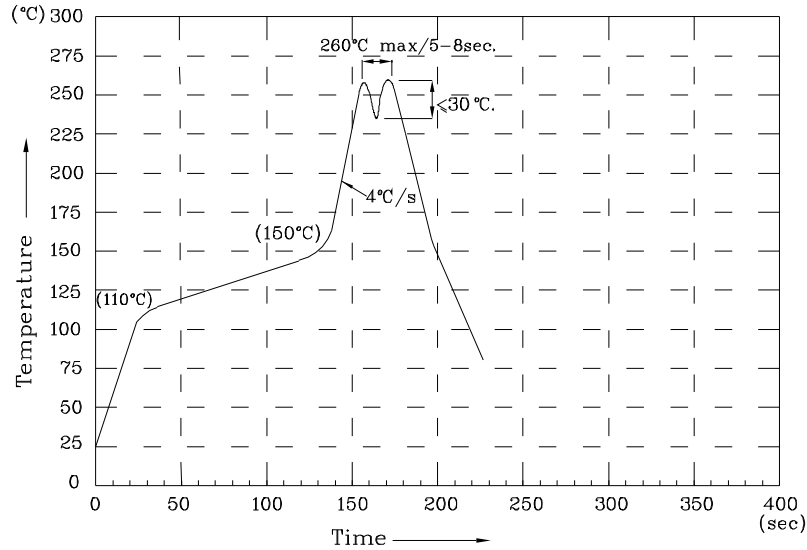
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (IF=10mA) med | | Wavelength nm λP | Viewing Angle 2 θ 1/2 |
|---|----------------|-------------------|----------------|--|------|---------------------------------|---------------------------------|
| | | | | min. | typ. | | |
| XPT1LUG41D | Green | GaP | Green Diffused | 8 | 14 | 565 | 60° |
| Published Date : MAY 05,2005 Drawing No : XDSA2816 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.