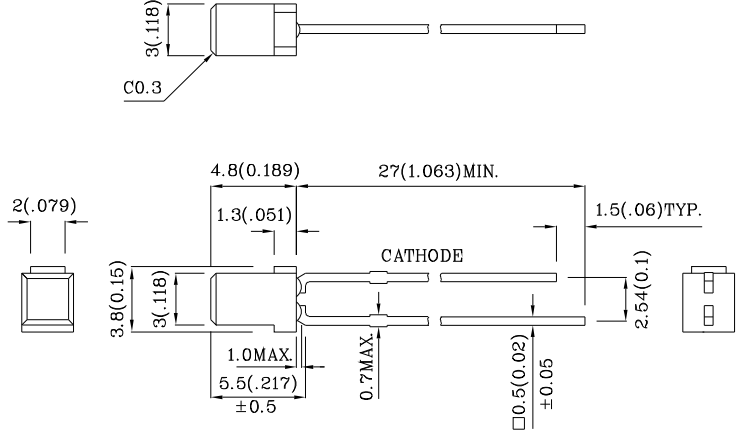


Features

- LOW POWER CONSUMPTION.
- ULTRA BRIGHTNESS AVAILABLE.
- WIDE VIEWING ANGLE.
- RELIABLE AND RUGGED.
- EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- IDEAL FOR FLUSH MOUNTED PANEL INDICATORS.
- RoHS COMPLIANT.



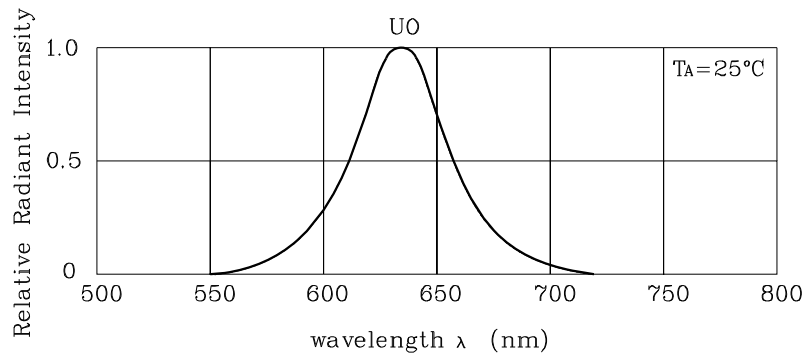
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25(0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

| Absolute Maximum Ratings (TA=25°C) | | UO (GaAsP/GaP) | Unit |
|--|---------------------|-------------------|------|
| Reverse Voltage | VR | 5 | V |
| Forward Current | IF | 30 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | iFS | 160 | mA |
| Power Dissipation | PT | 75 | 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 | | |

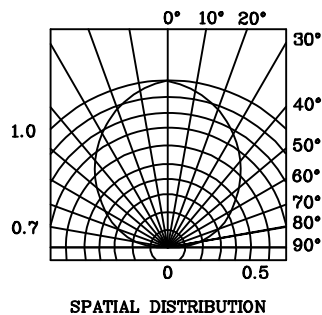
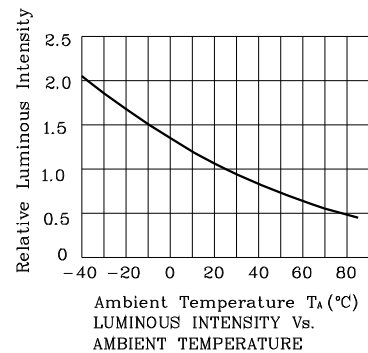
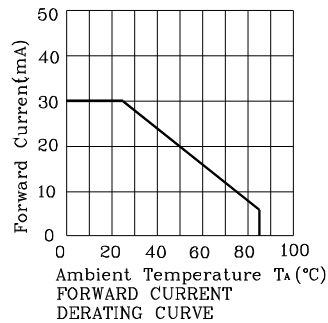
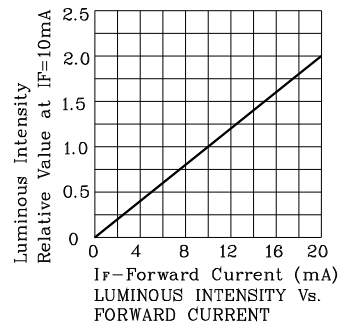
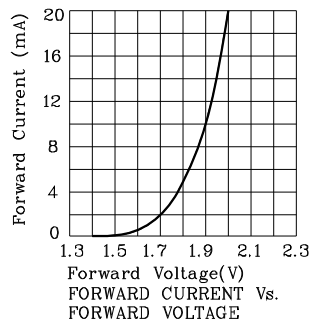
| Operating Characteristics (TA=25°C) | | UO (GaAsP/GaP) | Unit |
|---|-----|-------------------|------|
| Forward Voltage (Typ.) (IF=10mA) | VF | 1.9 | V |
| Forward Voltage (Max.) (IF=10mA) | VF | 2.5 | V |
| Reverse Current (Max.) (VR=5V) | IR | 10 | uA |
| Wavelength Of Peak Emission (Typ.) (IF=10mA) | λ P | 627 | nm |
| Wavelength Of Dominant Emission (Typ.) (IF=10mA) | λ D | 625 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (IF=10mA) | Δλ | 45 | nm |
| Capacitance (Typ.) (VF=0V, f=1MHz) | C | 15 | pF |

| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (IF=10mA) | | Wavelength nm λ P | Viewing Angle 2 θ 1/2 |
|-------------------------------|----------------|-------------------|-----------------|---------------------------------|------|---------------------------|--------------------------|
| | | | | min. | typ. | | |
| XSUO43D | Red | GaAsP/GaP | Orange Diffused | 3 | 4.8 | 627 | 110° |
| Published Date : JAN 21, 2008 | | | | Drawing No : XDSA2508 | | V5 Checked : B.LLIU P.1/4 | |

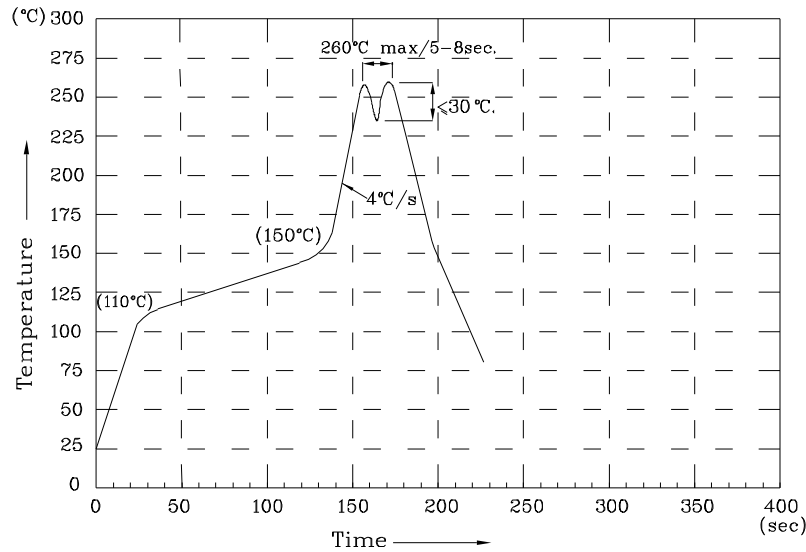


RELATIVE INTENSITY Vs. WAVELENGTH

❖ UO



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/ luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

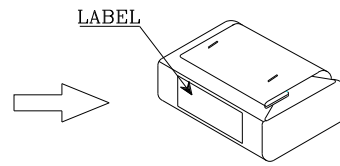
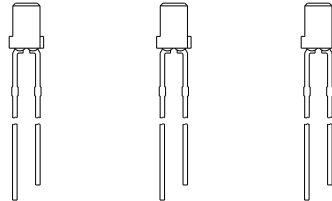
1. Wavelength: +/-1nm
2. Luminous intensity/ luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

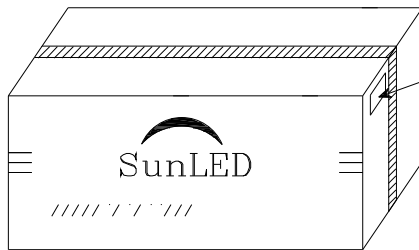


PACKING & LABEL SPECIFICATIONS

XSUO43D

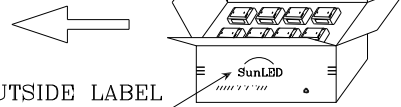


1000 PCS/Bag



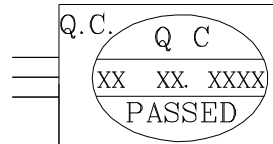
56K/BOX


OUTSIDE LABEL



OUTSIDE LABEL

28K/BOX



| | |
|--|-----------|
| P/NO : XSxxx43x | |
| QTY : 1000 pcs | CODE: XXX |
| S/N : XX | |
| LOT NO : | |
|  XXXXXXXXXXXXXXXXXXXXXXXX | |
| RoHS Compliant | |