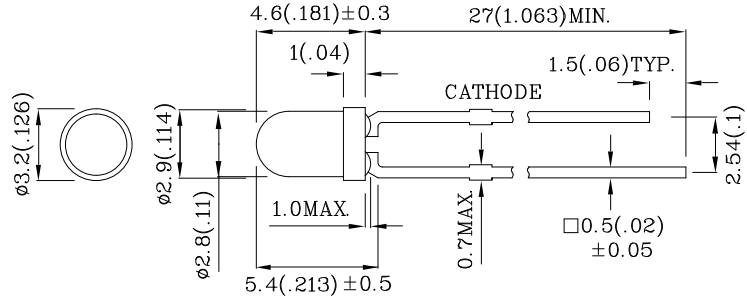


**Features**

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.



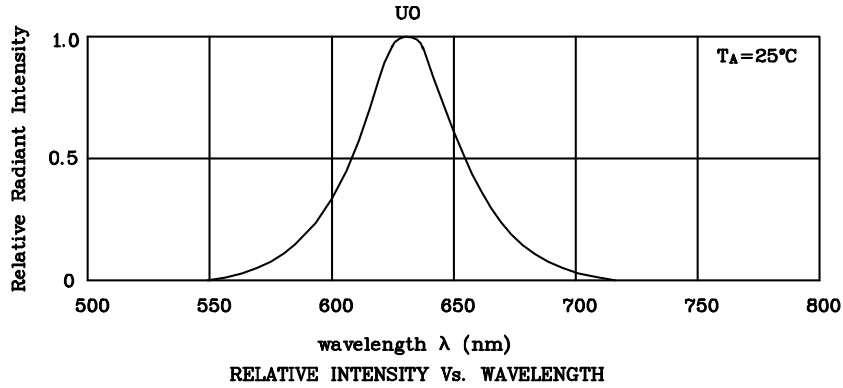
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.1(0.004)$ " unless otherwise noted.
3. Specifications are subject to change without notice.

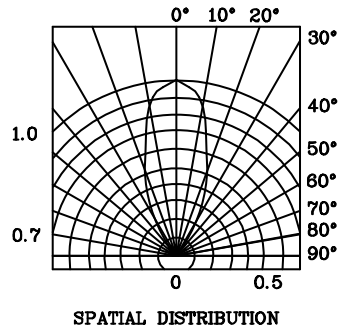
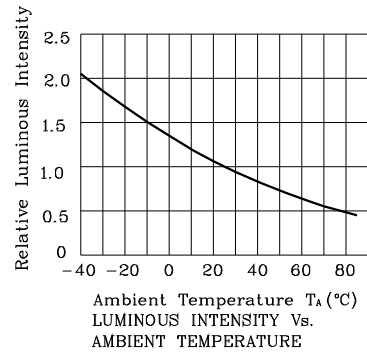
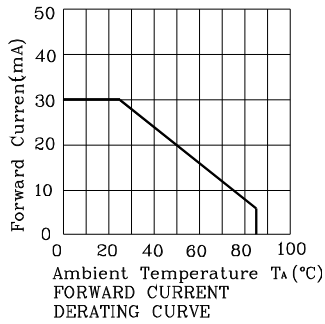
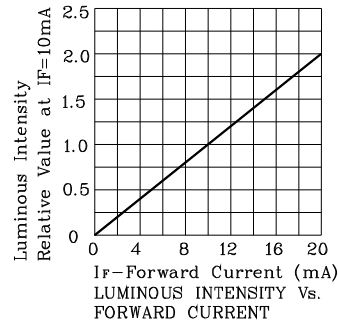
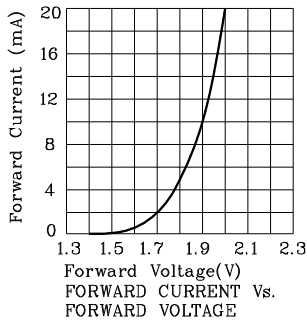
| Absolute Maximum Ratings<br>(TA=25°C)                          |                     | UO<br>(GaAsP/GaP) | Unit |
|--|---------------------|-------------------|------|
| Reverse Voltage  | VR                  | 5                 | V    |
| Forward Current  | IF                  | 30                | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>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<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)                          |                 | UO<br>(GaAsP/<br>GaP) | Unit |
|---|-----------------|-----------------------|------|
| Forward Voltage (Typ.)<br>(IF=10mA)                             | VF              | 1.9                   | V    |
| Forward Voltage (Max.)<br>(IF=10mA)                             | VF              | 2.5                   | V    |
| Reverse Current (Max.)<br>(VR=5V)                               | IR              | 10                    | uA   |
| Wavelength of Peak Emis-<br>sion (Typ.)<br>(IF=10mA)            | $\lambda P$     | 627                   | nm   |
| Wavelength of Dominant<br>Emission (Typ.)<br>(IF=10mA)          | $\lambda D$     | 625                   | nm   |
| Spectral Line Full Width At<br>Half-Maximum (Typ.)<br>(IF=10mA) | $\Delta\lambda$ | 45                    | nm   |
| Capacitance<br>(VF=0V, f=1MHz)                                  | C               | 15                    | pF   |

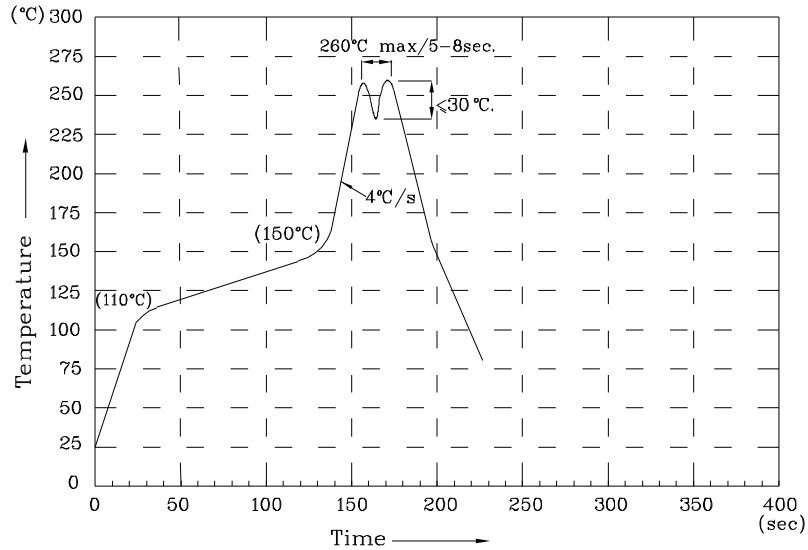
| Part Number                  | Emitting Color | Emitting Material | Lens-color      | Luminous Intensity<br>(IF=10mA)<br>mcd |      | Wavelength<br>nm<br>$\lambda P$ | Viewing Angle<br>2 $\theta$ 1/2 |
|------------------------------|----------------|-------------------|-----------------|--|------|---------------------------------|---------------------------------|
|                              |                |                   |                 | min.                                   | typ. |                                 |                                 |
| XLU011D                      | Orange         | GaAsP/GaP         | Orange Diffused | 8                                      | 19   | 627                             | 40°                             |
| Published Date : JAN 14,2008 |                |                   |                 | Drawing No : XDSA7591                  |      | V2 Checked : B.LLIU P.1/4       |                                 |



❖ 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:

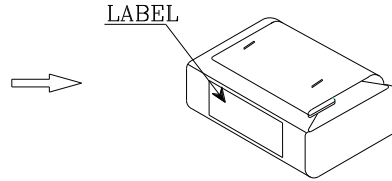
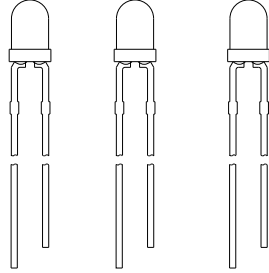
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

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

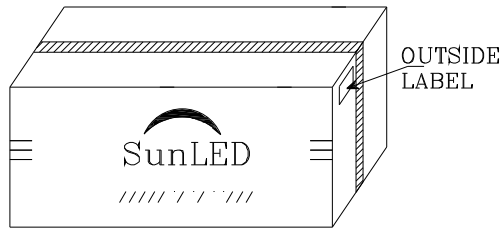
Note: Accuracy may depend on the sorting parameters.

**PACKING & LABEL SPECIFICATIONS**

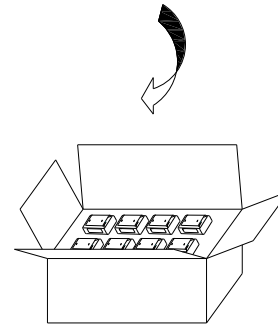
**XLU011D**



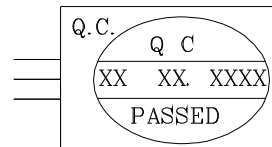
1,000PCS/BAG




56K/BOX



28K/BOX



|  |           |
|--|-----------|
| P/NO : XLxx11x   |           |
| QTY : 1,000 pcs  | CODE: XXX |
| S/N : XX   |           |
| LOT NO:  |           |
| <br>XXXXXXXXXXXXXXXXXXXXXXXX |           |
| RoHS Compliant   |           |