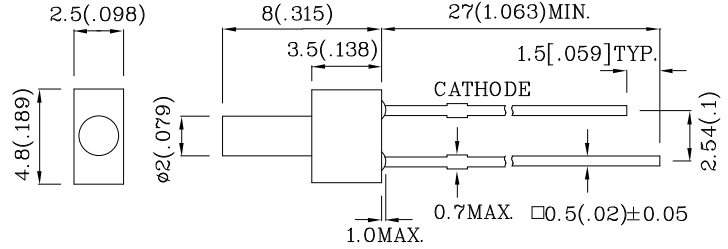


**Features**

- 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.



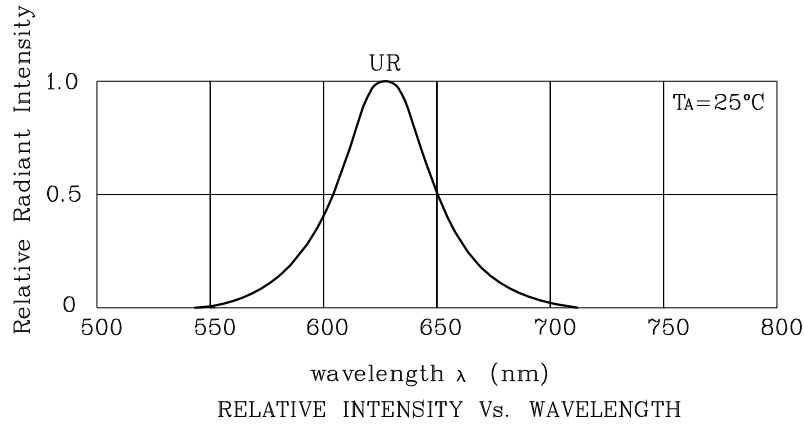
Notes:

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

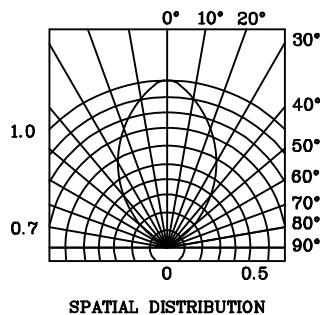
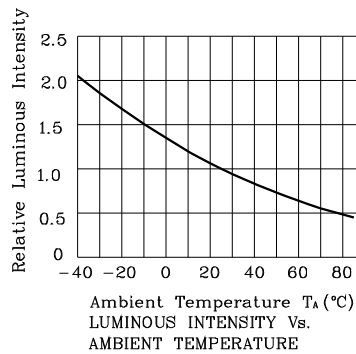
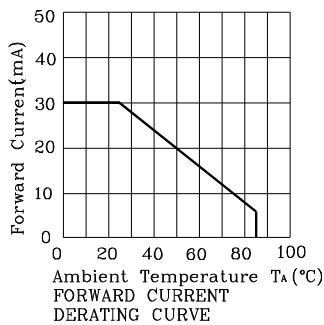
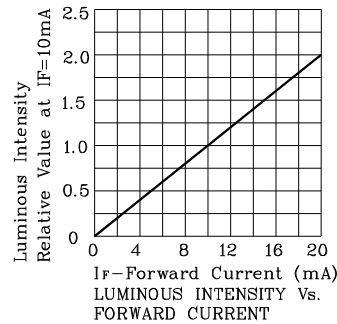
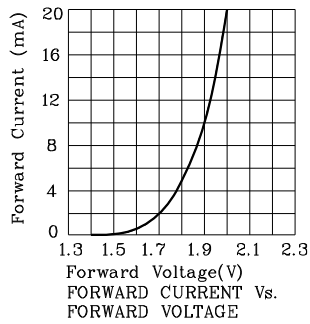
| Absolute Maximum Ratings<br>(TA=25°C)                          |                     | UR<br>(GaAsP/GaP) | Unit |
|--|---------------------|-------------------|------|
| Reverse Voltage  | VR                  | 5                 | V    |
| Forward Current  | IF                  | 30                | 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)                          |                 | UR<br>(GaAsP/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<br>Emission (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<br>At Half-Maximum (Typ.)<br>(IF=10mA) | $\Delta\lambda$ | 45                | nm   |
| Capacitance (Typ.)<br>(VF=0V, f=1MHz)                           | C               | 15                | pF   |

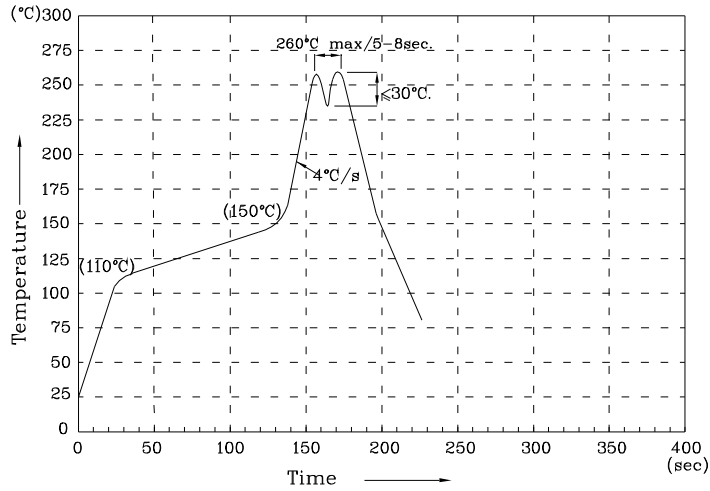
| Part Number | Emitting Color | Emitting Material | Lens-color   | Luminous Intensity<br>(IF=10mA)<br>mcd |      | Wavelength<br>nm<br>$\lambda P$ | Viewing Angle<br>2 $\theta$ 1/2 |
|-------------|----------------|-------------------|--------------|--|------|---------------------------------|---------------------------------|
|             |                |                   |              | min.                                   | typ. |                                 |                                 |
| LUR13D      | Red            | GaAsP/GaP         | Red Diffused | 5                                      | 9    | 627                             | 70°                             |



❖ UR



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:

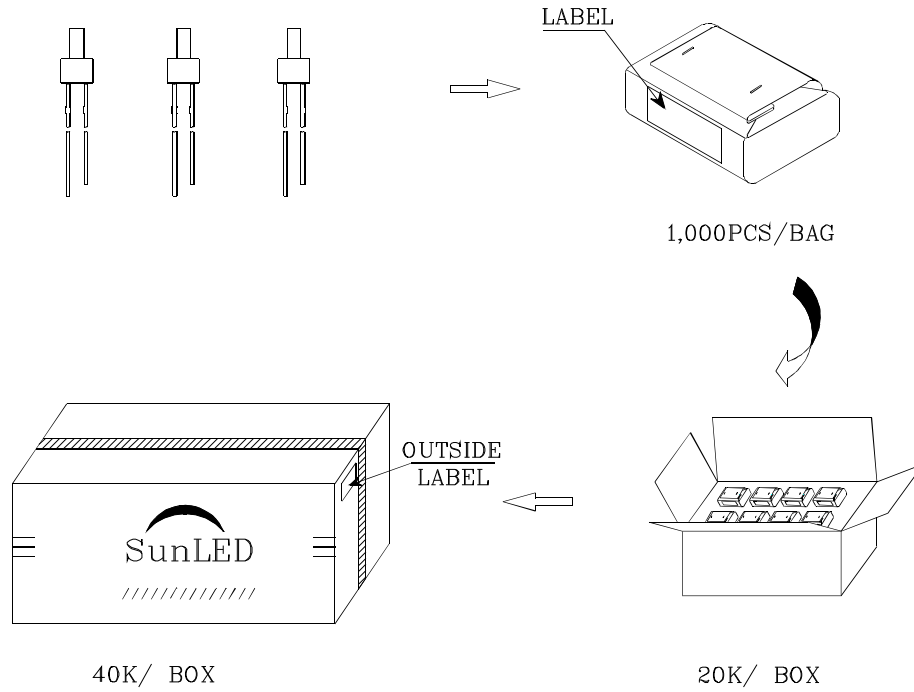

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

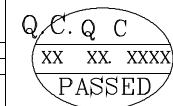

1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

**PACKING & LABEL SPECIFICATIONS**

**LUR13D**

|  |           |
|--|-----------|
|                              |           |
| P/NO : Lxxx13x   |           |
| QTY : 1,000 pcs  | CODE: XXX |
| S/N : XX   |           |
| LOT NO:  |           |
| <br>xxxxxxxxxxxxxxxxxxxxxxxx |           |
| RoHS Compliant   |           |