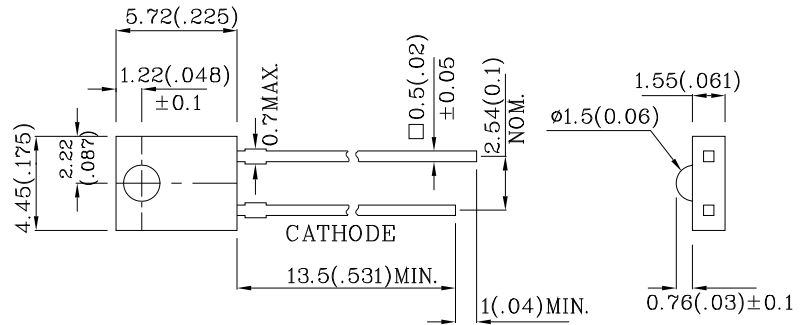


### Features

- LOW POWER CONSUMPTION.
- SIDE LOOKING PACKAGE.
- RELIABLE AND RUGGED.
- EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- LONG LIFE SOLID STATE RELIABILITY.
- RoHS COMPLIANT.



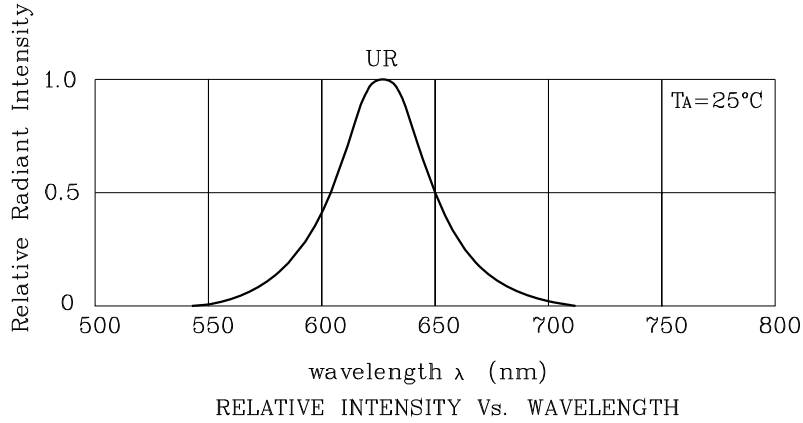
#### Notes:

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.

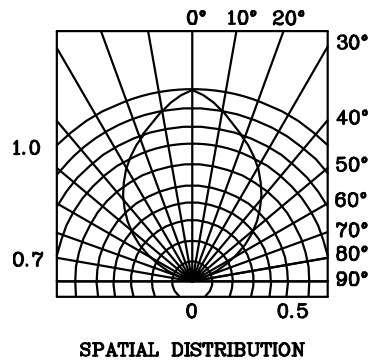
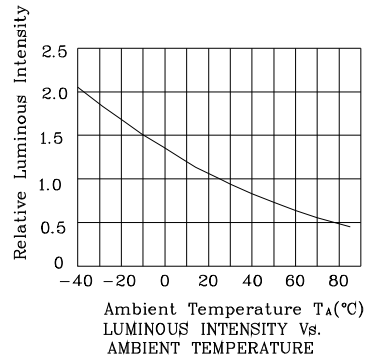
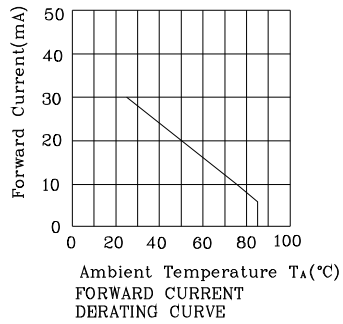
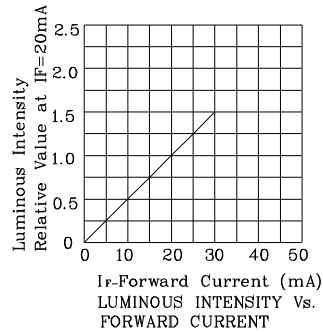
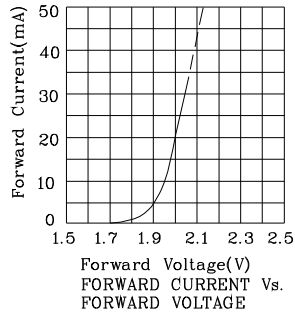
| Absolute Maximum Ratings<br>(TA=25°C)                          |                     | UR<br>(GaAsP/GaP) | Unit |
|--|---------------------|-------------------|------|
| Reverse Voltage  | VR                  | 5                 | V    |
| Forward Current  | IF                  | 30                | 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/<br>GaP) | Unit |
|---|-----------------|-----------------------|------|
| Forward Voltage (Typ.)<br>(IF=20mA)                             | VF              | 2.0                   | V    |
| Forward Voltage (Max.)<br>(IF=20mA)                             | VF              | 2.5                   | V    |
| Reverse Current (Max.)<br>(VR=5V)                               | IR              | 10                    | uA   |
| Wavelength Of Peak Emission<br>(Typ.)<br>(IF=20mA)              | $\lambda P$     | 627                   | nm   |
| Wavelength Of Dominant<br>Emission (Typ.)<br>(IF=20mA)          | $\lambda D$     | 625                   | nm   |
| Spectral Line Full Width At<br>Half-Maximum (Typ.)<br>(IF=20mA) | $\Delta\lambda$ | 45                    | nm   |
| Capacitance (Typ.)<br>(VF=0V, f=1MHz)                           | C               | 15                    | pF   |

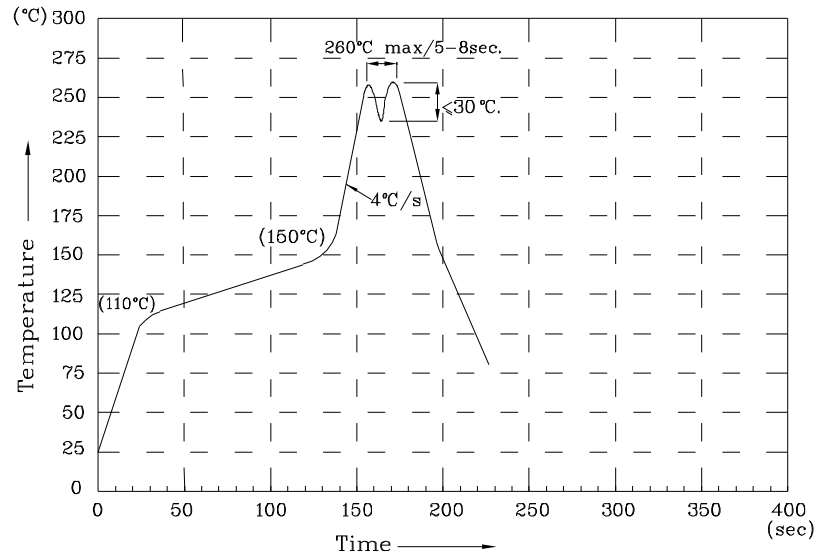
| Part<br>Number  | Emitting<br>Color | Emitting<br>Material | Lens-color   | Luminous<br>Intensity<br>(IF=20mA) |      | Wavelength<br>nm<br>$\lambda P$ | Viewing<br>Angle<br>2 $\theta$ 1/2 |
|---|-------------------|----------------------|--------------|------------------------------------|------|---------------------------------|------------------------------------|
|   |                   |                      |              | min.                               | typ. |                                 |                                    |
| LUR04D  | Red               | GaAsP/GaP            | Red Diffused | 7                                  | 17   | 627                             | 90°                                |
| Published Date : MAR 21,2008      Drawing No : SDSA3000      V3      Checked : B.L.LIU      P.1/4 |                   |                      |              |                                    |      |                                 |                                    |



❖ UR



Wave Soldering Profile For Lead-free Through-hole LED.



NOTES:

- 1.Recommmend 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:

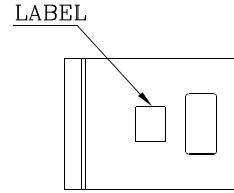
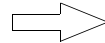
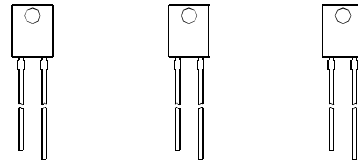
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity/ luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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

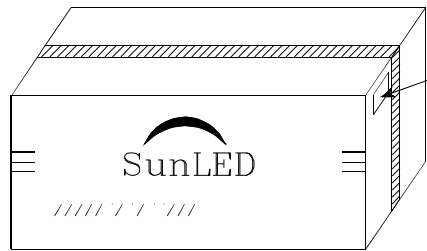
Note: Accuracy may depend on the sorting parameters.

**PACKING & LABEL SPECIFICATIONS**

**LUR04D**



500PCS/BAG

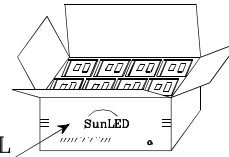


30K/BOX

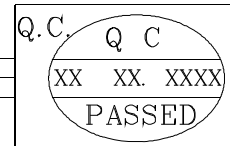
OUTSIDE LABEL



OUTSIDE LABEL



15K/BOX



P/NO : Lxxx04x

QTY : 500 pcs

CODE: XXX

S/N : XX

LOT NO :



XXXXXXXXXXXXXXXXXXXXXXXXXXXX

RoHS Compliant