

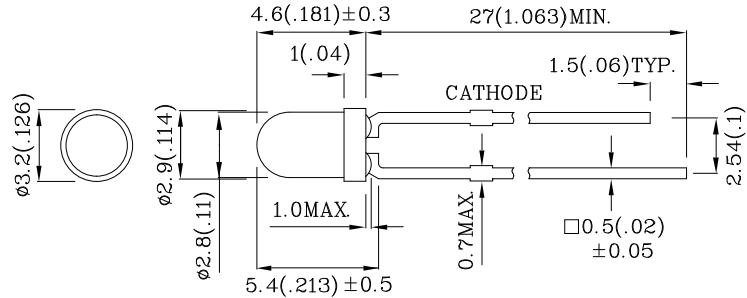
Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- 14V INTERNAL RESISTOR.
- RoHS COMPLIANT.



Notes:

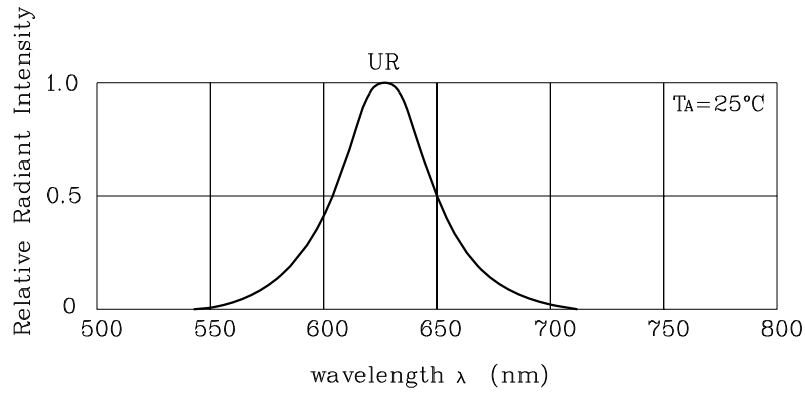
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
3. Specifications are subject to change without notice.



| Absolute maximum ratings ($T_A=25^\circ\text{C}$) | | UR (GaAsP/ GaP) | Unit |
|--|---------------------|-----------------------|------|
| Reverse Voltage | V_R | 5 | V |
| Forward Voltage | V_F | 16 | V |
| Power Dissipation | P_T | 160 | mW |
| Operating Temperature | T_A | -40 ~ +70 | °C |
| Storage Temperature | T_{stg} | -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 | | |

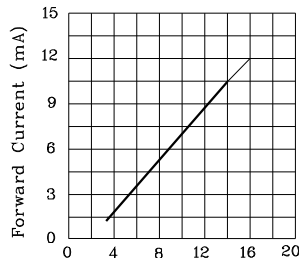
| Operating Characteristics ($T_A=25^\circ\text{C}$) | | UR (GaAsP/ GaP) | Unit |
|--|-----------------|-----------------------|------|
| Forward Current (Typ.) ($V_F=14\text{V}$) | I_F | 10.5 | mA |
| Forward Current (Max.) ($V_F=14\text{V}$) | I_F | 13.5 | mA |
| Reverse Current (Max.) ($V_R=14\text{V}$) | I_R | 10 | uA |
| Wavelength of Peak Emis- sion (Typ.) ($V_F=14\text{V}$) | λ_P | 627 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) ($V_F=14\text{V}$) | λ_D | 625 | nm |
| Spectral Line Half-Width ($V_F=14\text{V}$) (Typ.) | $\Delta\lambda$ | 45 | nm |

| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity ($V=14\text{V}$) mcd | | Wavelength nm λ_P | Viewing Angle 2θ 1/2 |
|--|----------------|-------------------|--------------|---|------|---------------------------------|--------------------------------|
| | | | | min. | typ. | | |
| LUR11D14V | Red | GaAsP/GaP | Red Diffused | 8 | 19 | 627 | 40° |
| Published Date : MAR 17, 2008 Drawing No : SDSA4836 V2 Checked : B.L.LIU P.1/4 | | | | | | | |

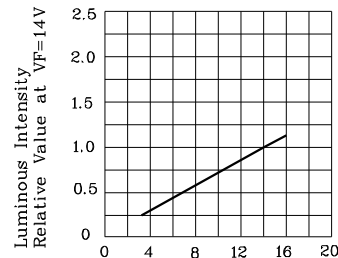


RELATIVE INTENSITY Vs. WAVELENGTH

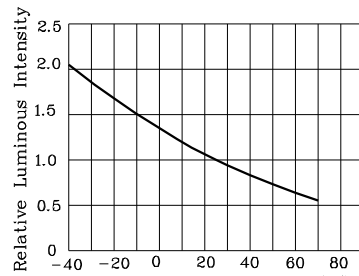
❖ UR



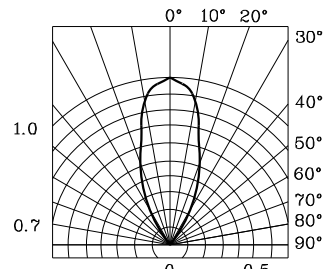
FORWARD VOLTAGE Vs. FORWARD CURRENT



FORWARD VOLTAGE Vs. LUMINOUS INTENSITY

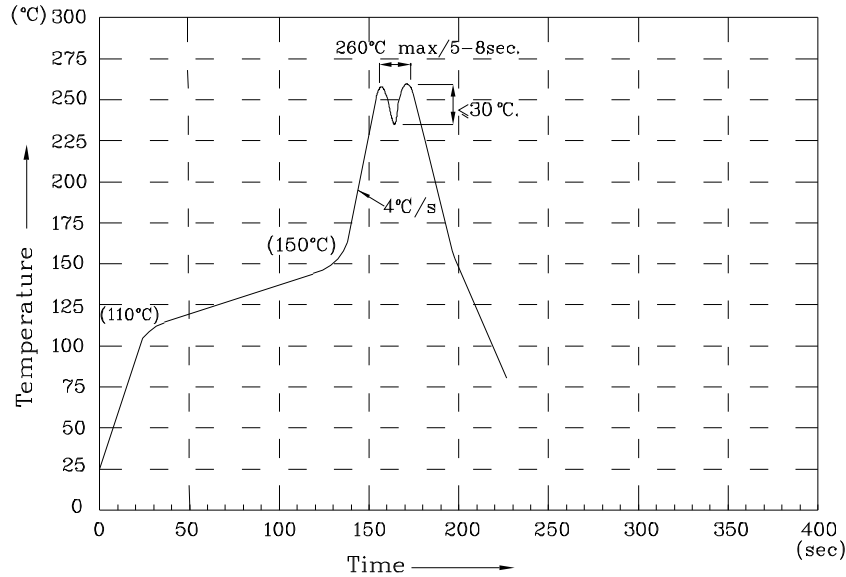


LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION

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:

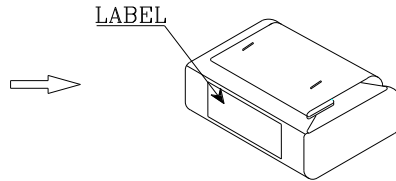
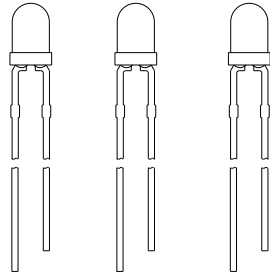
If special sorting is required (e.g. binning based on , luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%

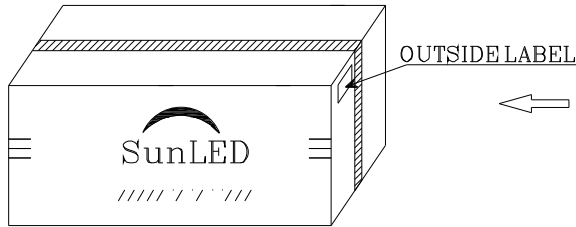
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

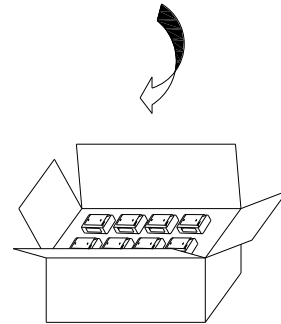
LUR11D14V



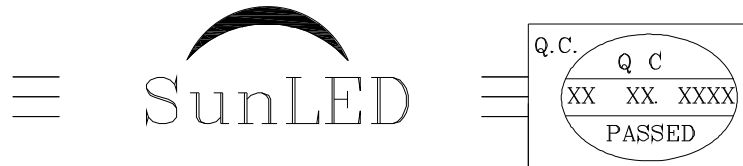
1,000PCS/BAG




56K / BOX



28K/ BOX



| | |
|--|-----------|
| P/NO : Lxx11x | |
| QTY : 1,000 pcs | CODE: XXX |
| S/N : XX | |
| LOT NO: | |
|  XXXXXXXXXXXXXXXXXXXXXXXX | |
| RoHS Compliant | |