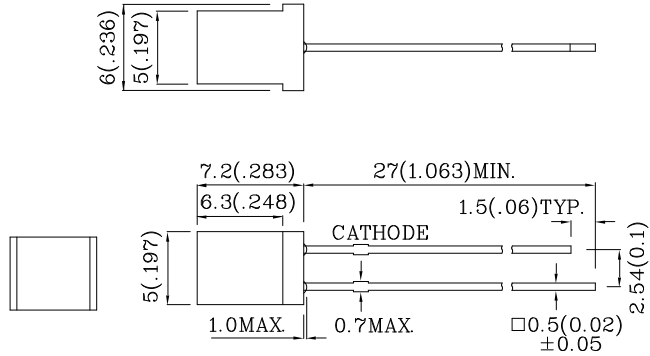




Features

- LOW POWER CONSUMPTION.
- ULTRA BRIGHTNESS IS AVAILABLE.
- WIDE VIEWING ANGLE.
- RELIABLE AND RUGGED.
- EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- IDEAL AS FLUSH MOUNTED PANEL INDICATORS.
- LONG LIFE - SOLID STATE RELIABILITY.
- RoHS COMPLIANT.



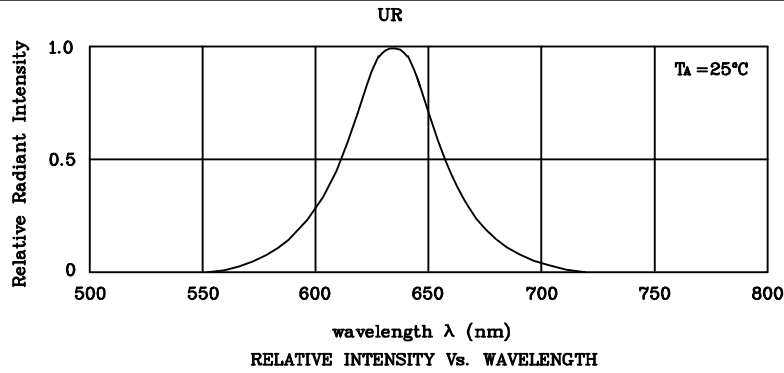
Notes:

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.

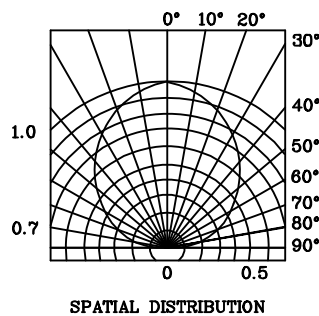
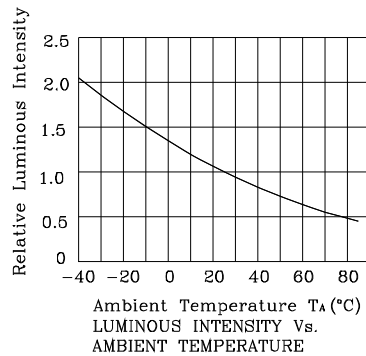
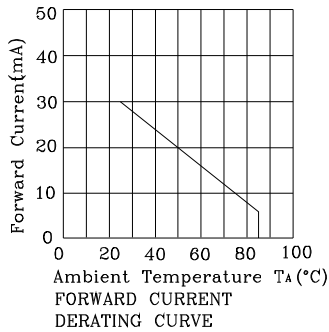
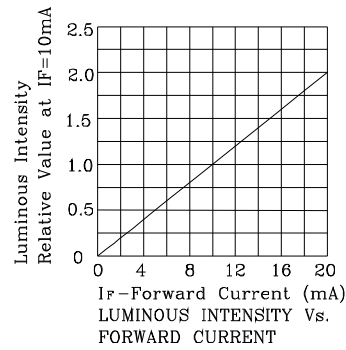
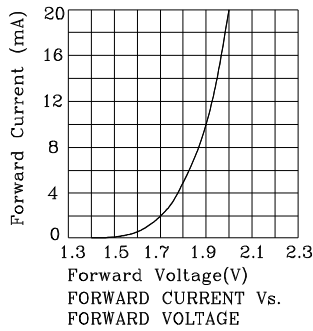
| Absolute Maximum Ratings ($T_A=25^\circ\text{C}$) | | UR (GaAsP/GaP) | Unit |
|--|---------------------|-------------------|------|
| Reverse Voltage | V_R | 5 | V |
| Forward Current | I_F | 30 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | i_{FS} | 160 | mA |
| Power Dissipation | P_T | 75 | mW |
| Operating Temperature | T_A | -40 ~ +85 | °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 Voltage (Typ.) ($I_F=10\text{mA}$) | V_F | 1.9 | V |
| Forward Voltage (Max.) ($I_F=10\text{mA}$) | V_F | 2.5 | V |
| Reverse Current (Max.) ($V_R=5\text{V}$) | I_R | 10 | μA |
| Wavelength Of Peak Emission (Typ.) ($I_F=10\text{mA}$) | λ_P | 627 | nm |
| Wavelength Of Dominant Emission (Typ.) ($I_F=10\text{mA}$) | λ_D | 625 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=10\text{mA}$) | $\Delta\lambda$ | 45 | nm |
| Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$) | C | 15 | pF |

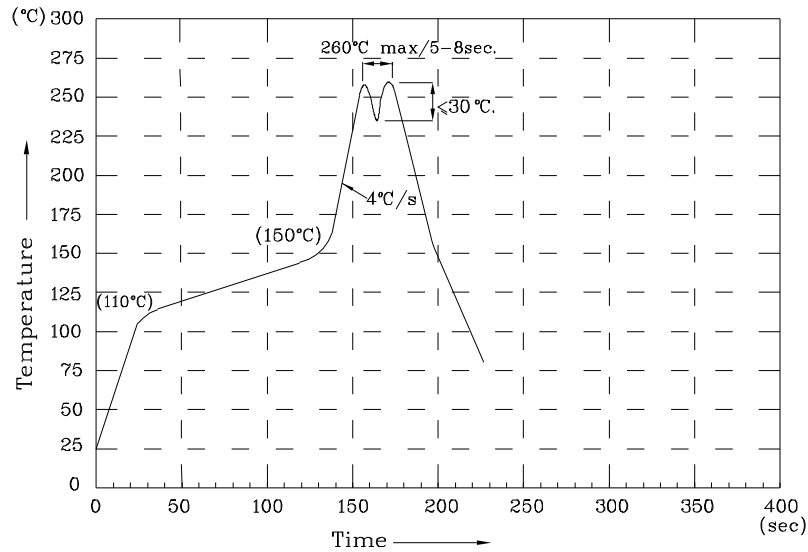
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity ($I_F=10\text{mA}$) mcd | | Wavelength nm λ_P | Viewing Angle 2θ 1/2 |
|---|----------------|-------------------|--------------|--|------|---------------------------------|--------------------------------|
| | | | | min. | typ. | | |
| XSUR23D | Red | GaAsP/GaP | Red Diffused | 3 | 5 | 627 | 110° |
| Published Date : JAN 21,2008 Drawing No : XDSA2519 V4 Checked : B.L.LIU P.1/4 | | | | | | | |



❖ 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:

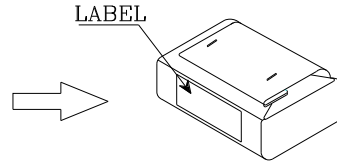
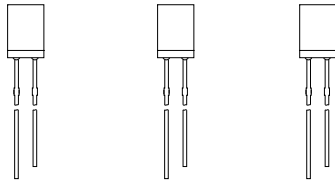
1. Wavelength: +/-1nm
2. Luminous intensity/ luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

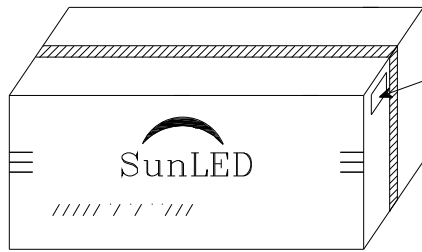


PACKING & LABEL SPECIFICATIONS

XSUR23D

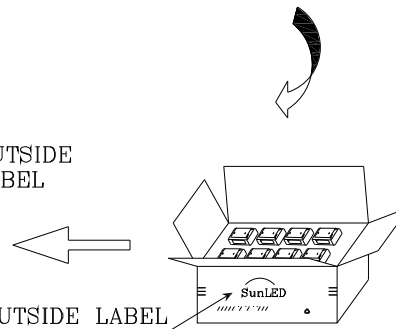


1000 PCS/Bag




28K/BOX

OUTSIDE LABEL



14K/BOX



| | |
|--|-----------|
| P/NO : XSxxx23x | |
| QTY : 1000 pcs | CODE: XXX |
| S/N : XX | |
| LOT NO : | |
|  XXXXXXXXXXXXXXXXXXXXXXXXXX | |
| RoHS Compliant | |