

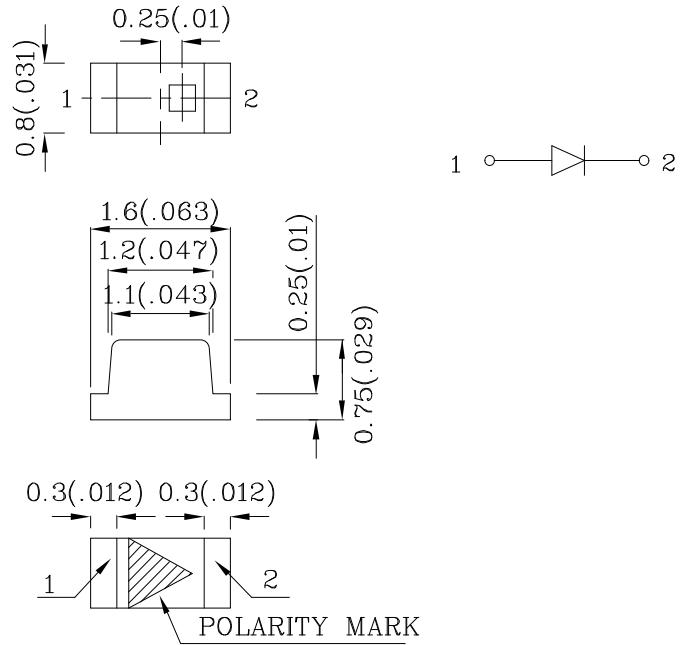
Features

- 1.6mmX0.8mm SMT LED, 0.75mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- PACKAGE: 2000PCS / REEL .
- RoHS COMPLIANT.



Notes:

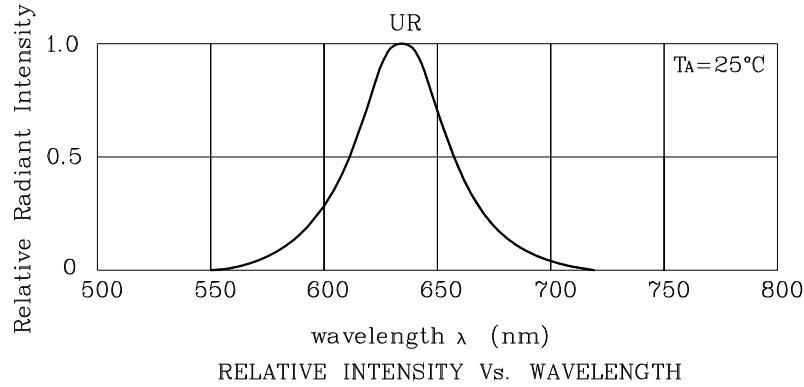
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1(0.004)$ " unless otherwise noted.
3. Specifications are subject to change without notice.



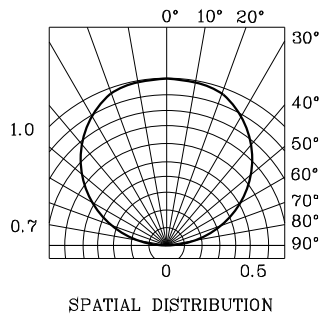
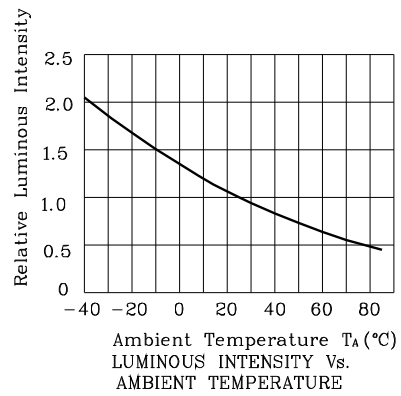
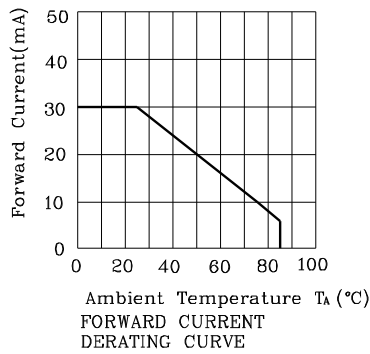
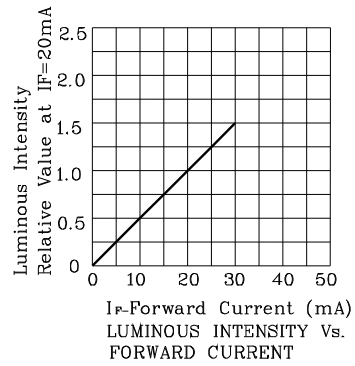
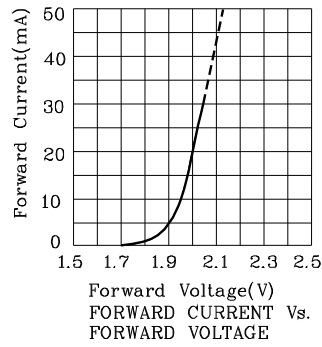
| Absolute Maximum Ratings (TA=25°C) | | UR (GaAsP/GaP) | Unit |
|---|------------------|-------------------|------|
| Reverse Voltage | V _R | 5 | V |
| Forward Current | I _F | 30 | mA |
| Forward Current (Peak) 1/10Duty Cycle 0.1ms Pulse Width | i _{FS} | 160 | mA |
| Power Dissipation | P _T | 75 | mW |
| Operating Temperature | T _A | -40 ~ +85 | °C |
| Storage Temperature | T _{stg} | -40 ~ +85 | |

| Operating Characteristics (TA=25°C) | | UR (GaAsP/GaP) | Unit |
|--|----------------|-------------------|------|
| Forward Voltage (Typ.) (I _F =20mA) | V _F | 2.0 | V |
| Forward Voltage (Max.) (I _F =20mA) | V _F | 2.5 | V |
| Reverse Current (Max.) (V _R =5V) | I _R | 10 | µA |
| Wavelength of Peak Emission (Typ.) (I _F =20mA) | λ _P | 627 | nm |
| Wavelength of Dominant Emission (Typ.) (I _F =20mA) | λ _D | 625 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA) | Δλ | 45 | nm |
| Capacitance (V _F =0V, f=1MHz) | C | 15 | pF |

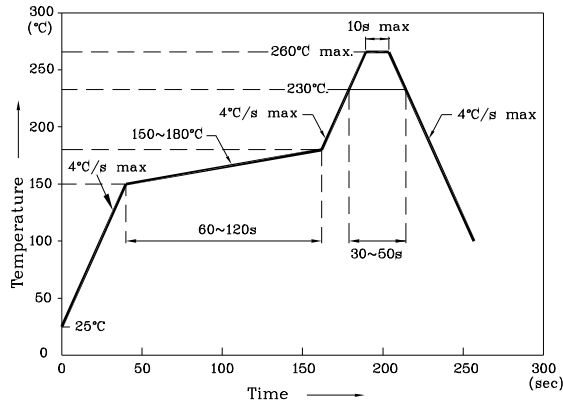
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (I _F =20mA) mcd | | Wavelength nm λ _P | Viewing Angle 2 θ 1/2 |
|--|----------------|-------------------|-------------|---|------|------------------------------------|--------------------------|
| | | | | min. | typ. | | |
| ZUR53W-1 | Red | GaAsP/GaP | Water Clear | 4 | 11 | 627 | 120° |
| Published Date : JAN 07,2008 Drawing No : SDSA2401 V5 Checked : Shin Chi P.1/4 | | | | | | | |



❖ UR



Reflow Soldering Profile For Lead-free SMT Process.

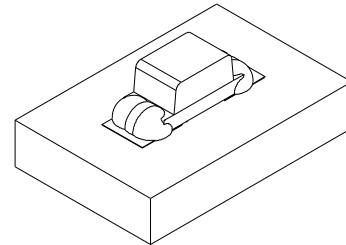
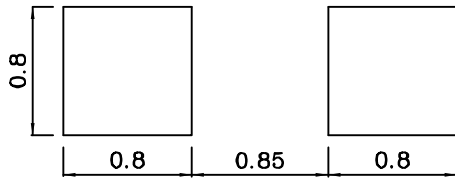


Notes:

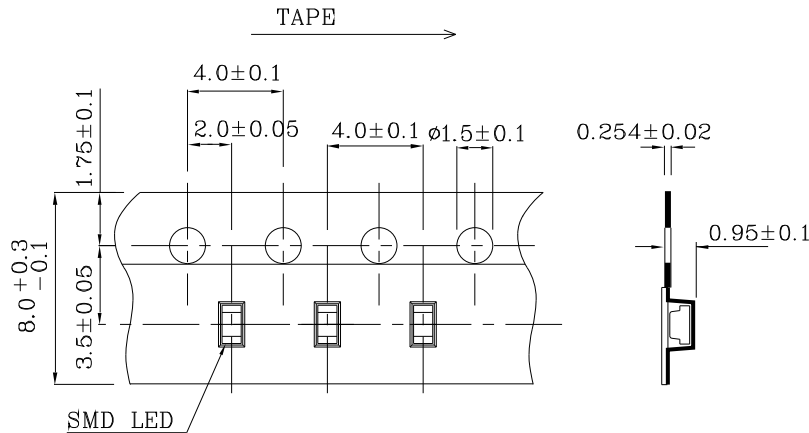
1. Maximum soldering temperature should not exceed 260°C.
2. Recommended reflow temperature: 145°C-260°C.
3. Do not put stress to the epoxy resin during high temperatures conditions.

❖ **Recommended Soldering Pattern**
(Units: mm ; Tolerance: ± 0.1)

❖ **The device has a single mounting surface. The device must be mounted according to the specifications.**



❖ **Tape Specification (Units : mm)**



Remarks:

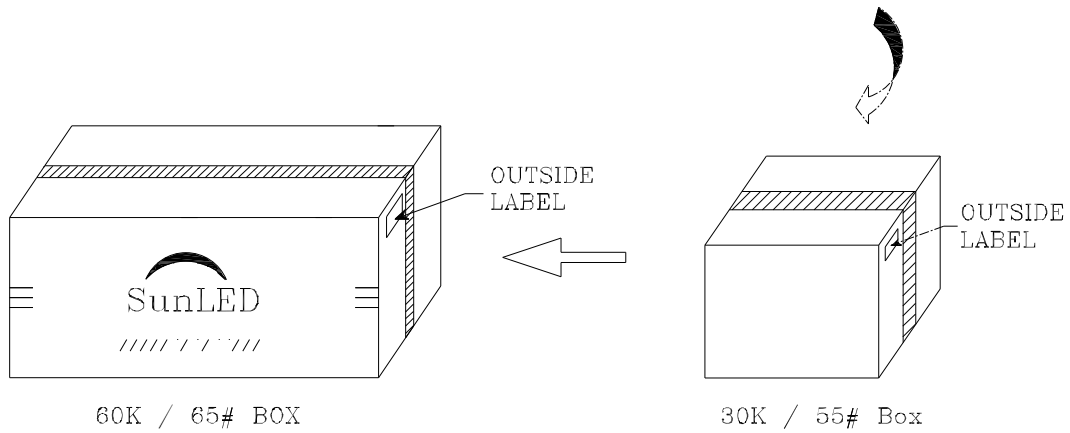
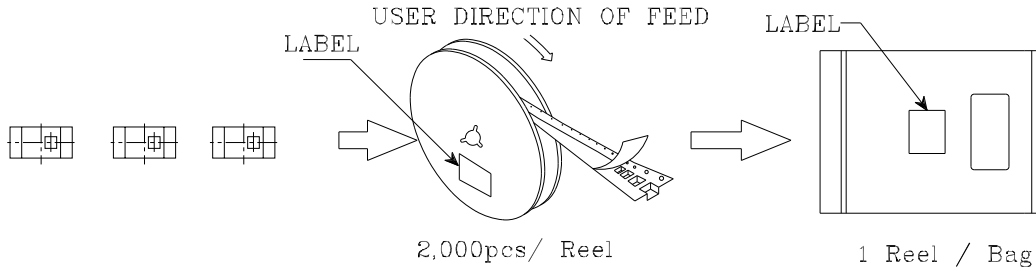

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

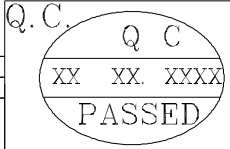


1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

ZUR53W-1

| | |
|--|--|
| P/N0 : Zxx53x-1 |  |
| QTY : 2,000 pcs |  |
| S/N : XX | CODE: XXX |
| LOT NO: | |
|  | |
| RoHS Compliant | |