

PRELIMINARY SPEC

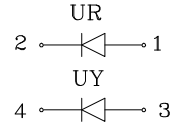
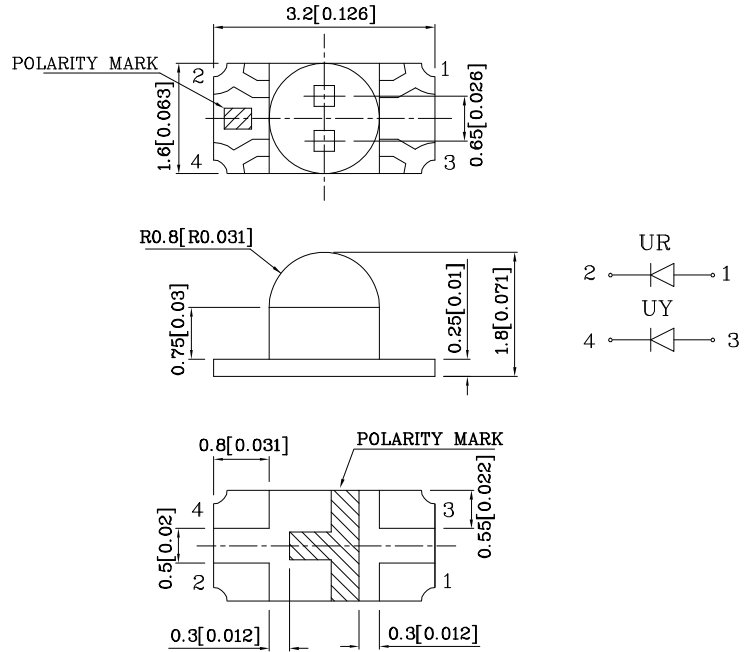
Features

- 3.2mmx1.6mm SMT LED, 1.8mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- RoHS COMPLIANT.



Notes:

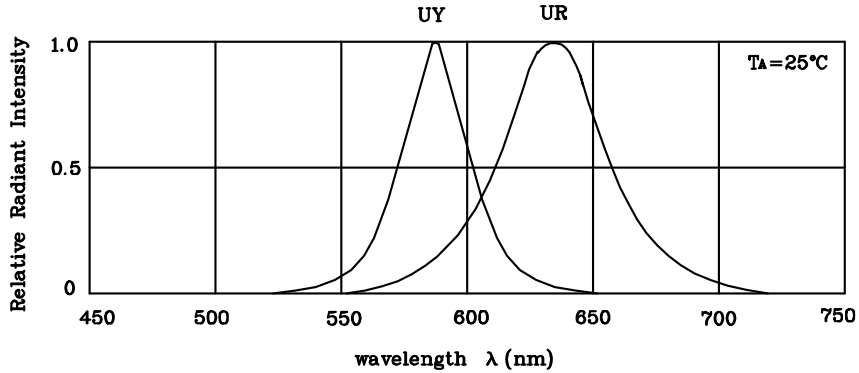
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.008)$ " unless otherwise noted.
3. Specifications are subject to change without notice.



| Absolute maximum ratings (TA=25°C) | | UR (GaAsP/ GaP) | UY (GaAsP/ GaP) | Unit |
|--|------|-----------------------|-----------------------|------|
| Reverse Voltage | VR | 5 | 5 | V |
| Forward Current | IF | 30 | 30 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | iFS | 160 | 140 | mA |
| Power Dissipation | PT | 75 | 75 | mW |
| Operating Temperature | TA | -40 ~ +85 | | °C |
| Storage Temperature | Tstg | -40 ~ +85 | | |

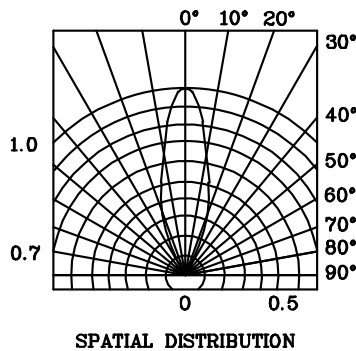
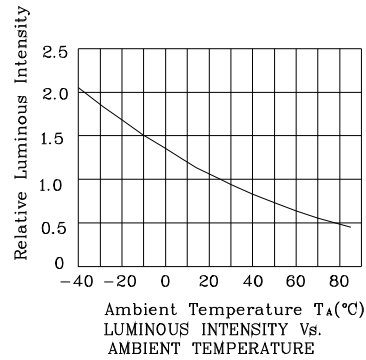
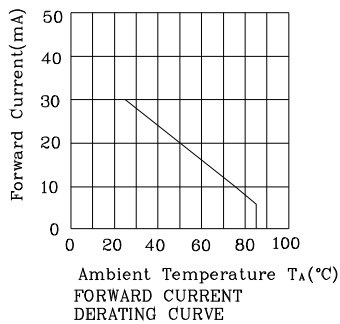
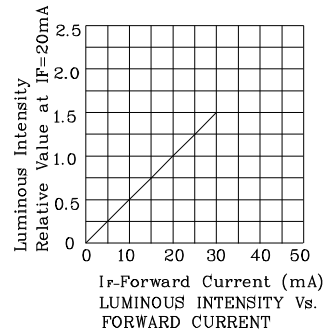
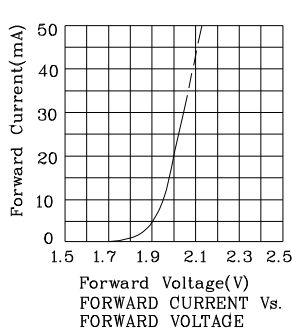
| Operating Characteristics (TA=25°C) | | UR (GaAsP/ GaP) | UY (GaAsP/ GaP) | Unit |
|---|-----------------|-----------------------|-----------------------|------|
| Forward Voltage (Typ.) (IF=20mA) | VF | 2.0 | 2.1 | V |
| Forward Voltage (Max.) (IF=20mA) | VF | 2.5 | 2.5 | V |
| Reverse Current (Max.) (VR=5V) | IR | 10 | 10 | uA |
| Wavelength Of Peak Emission (Typ.) (IF=20mA) | λP | 627 | 590 | nm |
| Wavelength Of Domi- nant Emission (Typ.) (IF=20mA) | λD | 625 | 588 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA) | $\Delta\lambda$ | 45 | 35 | nm |
| Capacitance (Typ.) (VF=0V, f=1MHz) | C | 15 | 20 | pF |

| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (IF=20mA) mcd | | Wavelength nm λP | Viewing Angle 2 θ 1/2 |
|-------------|----------------|-------------------|-------------|--|------|---------------------------------|---------------------------------|
| | | | | min. | typ. | | |
| XZUYR55W-8 | Red | GaAsP/GaP | Water Clear | 10 | 24 | 627 | 30° |
| | Yellow | GaAsP/GaP | | 4 | 14 | 590 | |

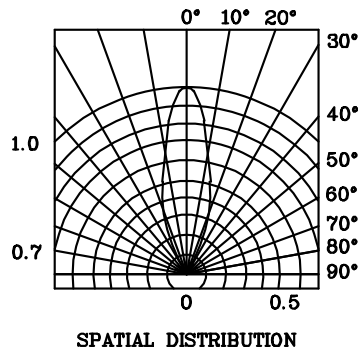
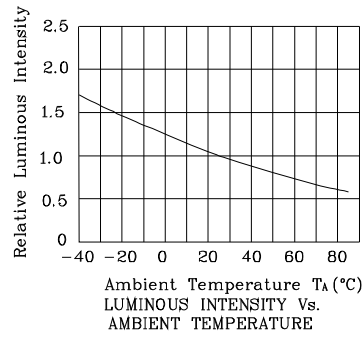
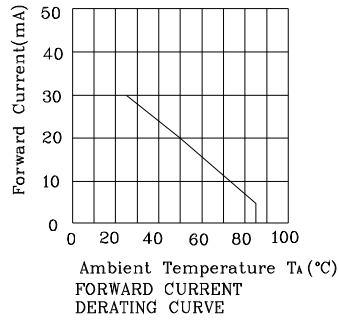
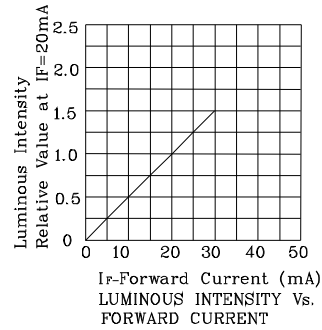
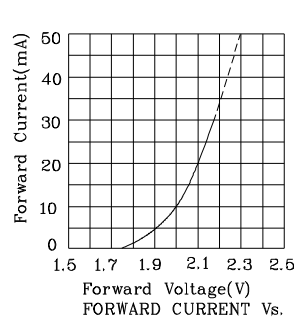


RELATIVE INTENSITY Vs. WAVELENGTH

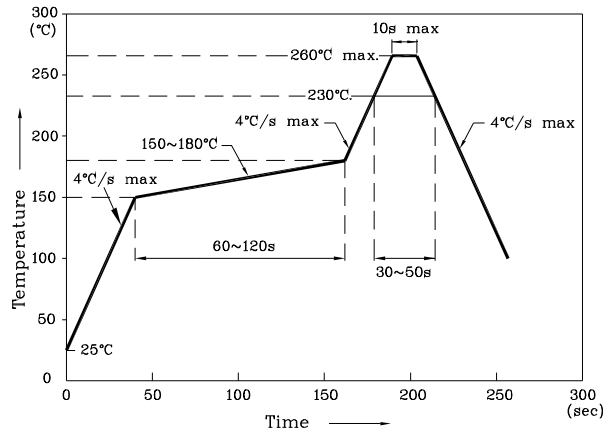
❖ UR



❖ UY



Reflow Soldering Profile For Lead-free SMT Process.

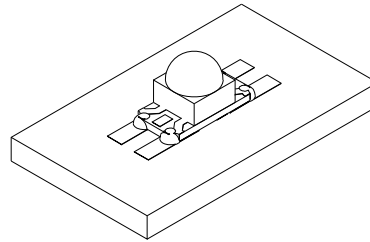
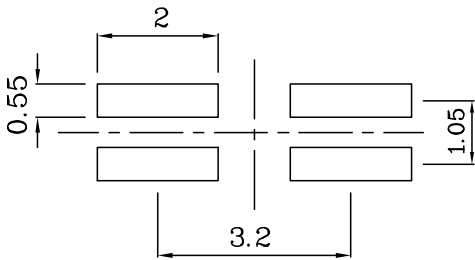


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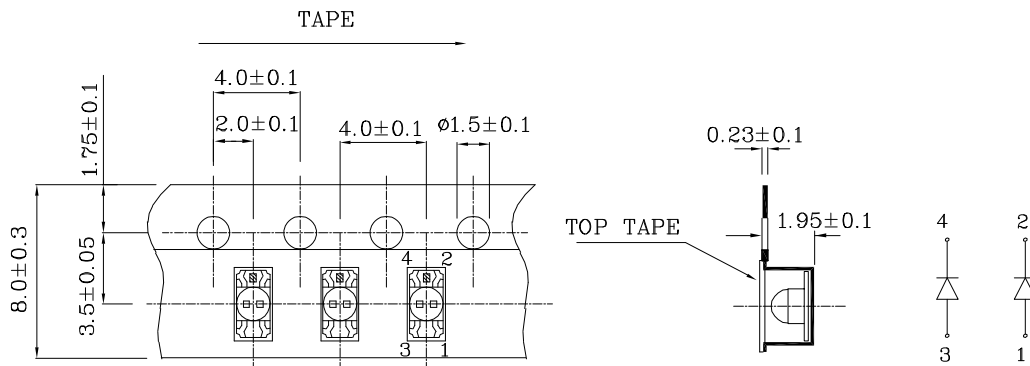
1. Maximum soldering temperature should not exceed 260°C.
2. Recommended reflow temperature: 145°C-260°C.
3. Do not put stress to the epoxy resin during high temperatures conditions.

❖ 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:

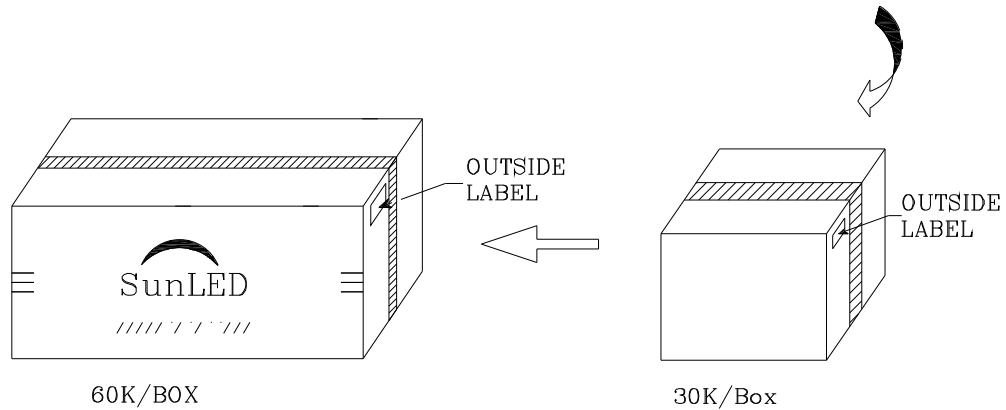
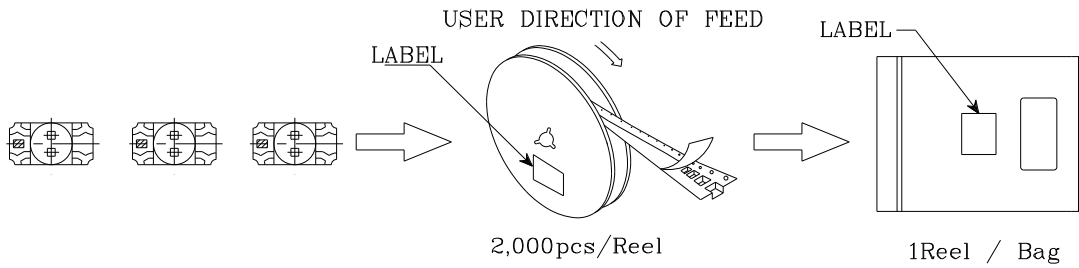
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:


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

XZUYR55W-8



| | |
|--|-----------|
| P/NO : XZxx55x-8 | |
| QTY : 2,000 pcs | CODE: XXX |
| S/N : XX | |
| LOT NO: | |
|  XXXXXXXXXXXXXXXXXXXX | |
| RoHS Compliant | |