

PRELIMINARY SPEC

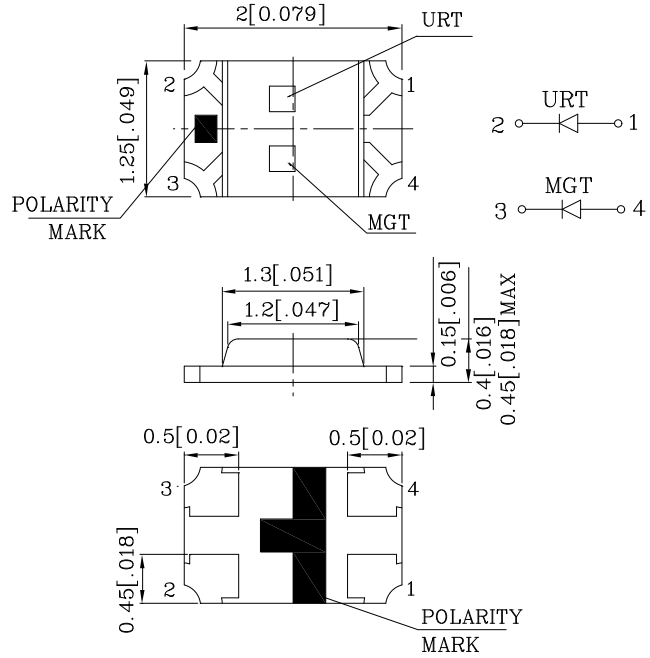
Features

- 2.0mmx1.25mm SMT LED, 0.45mm MAX. THICKNESS.
- BI -COLOR, LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE : 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- RoHS COMPLIANT.



Notes:

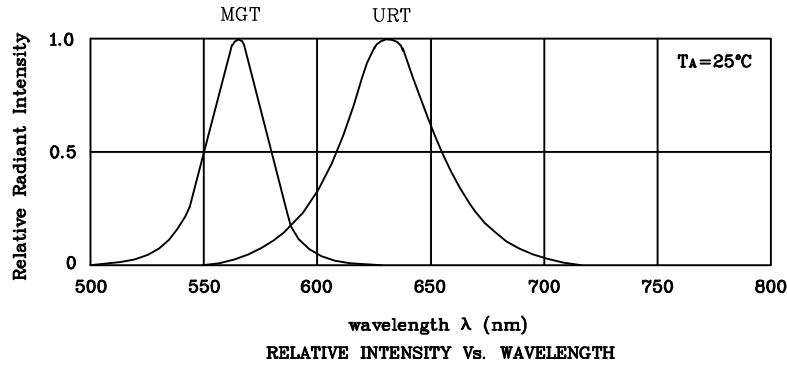
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.
3. Specifications are subject to change without notice.



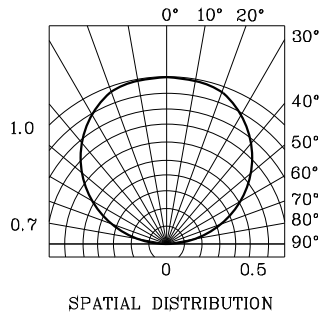
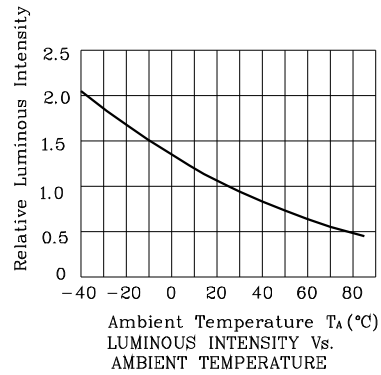
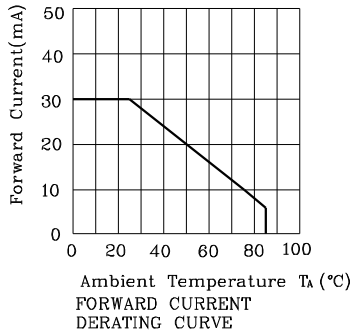
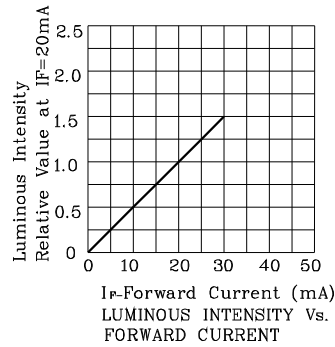
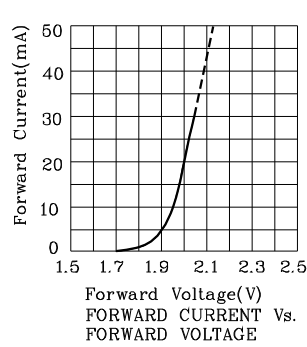
| Absolute Maximum Ratings (TA=25°C) | | URT (GaAsP/ GaP) | MGT (GaP) | Unit |
|--|------|------------------------|--------------|------|
| Reverse Voltage | VR | 5 | 5 | V |
| Forward Current | IF | 30 | 25 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | iFS | 160 | 140 | mA |
| Power Dissipation | PT | 75 | 62.5 | mW |
| Operating Temperature | TA | -40 ~ +85 | | °C |
| Storage Temperature | Tstg | -40 ~ +85 | | |

| Operating Characteristics (TA=25°C) | | URT (GaAsP/ GaP) | MGT (GaP) | Unit |
|---|-----|------------------------|--------------|------|
| Forward Voltage (Typ.) (IF=20mA) | VF | 2.0 | 2.2 | 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) | λ P | 627 | 565 | nm |
| Wavelength of Dominant Emission (Typ.) (IF=20mA) | λ D | 625 | 568 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA) | Δλ | 45 | 30 | nm |
| Capacitance (Typ.) (VF=0V, f=1MHz) | C | 15 | 15 | pF |

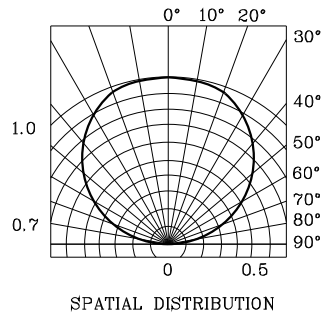
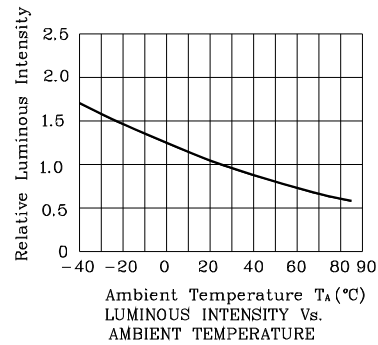
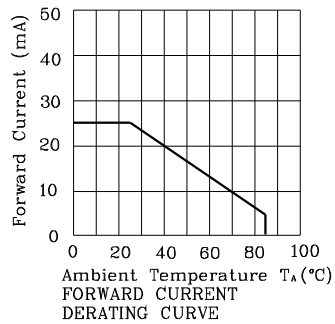
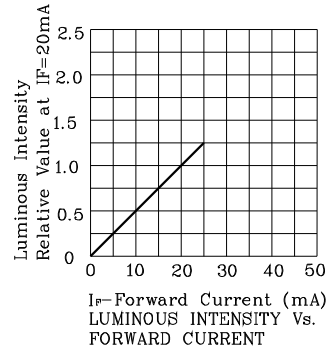
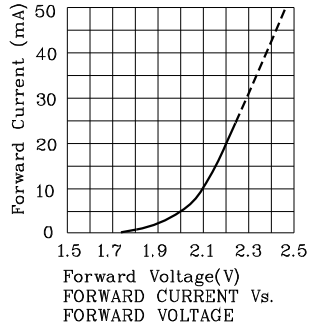
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (IF=20mA) mcd | | Wavelength nm λ P | Viewing Angle 2 θ 1/2 |
|--------------|----------------|-------------------|-------------|--|------|-------------------------|--------------------------|
| | | | | min. | typ. | | |
| ZURTMGT54W-4 | Red | GaAsP/GaP | Water Clear | 4 | 16 | 627 | 120° |
| | Green | GaP | | 7 | 19 | 565 | |



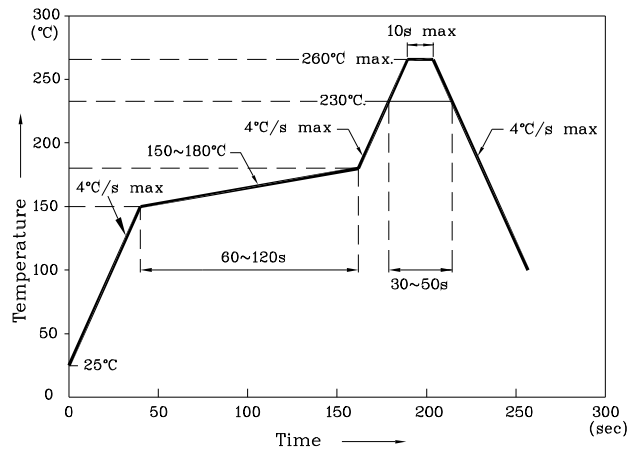
❖ URT



❖ MGT



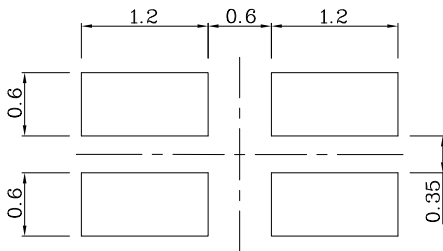
Reflow Soldering Profile For Lead-free SMT Process.



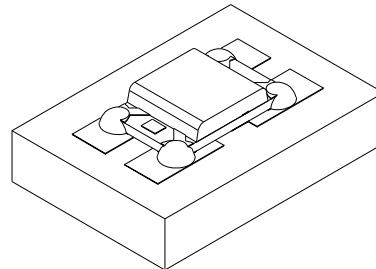
Notes:

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)

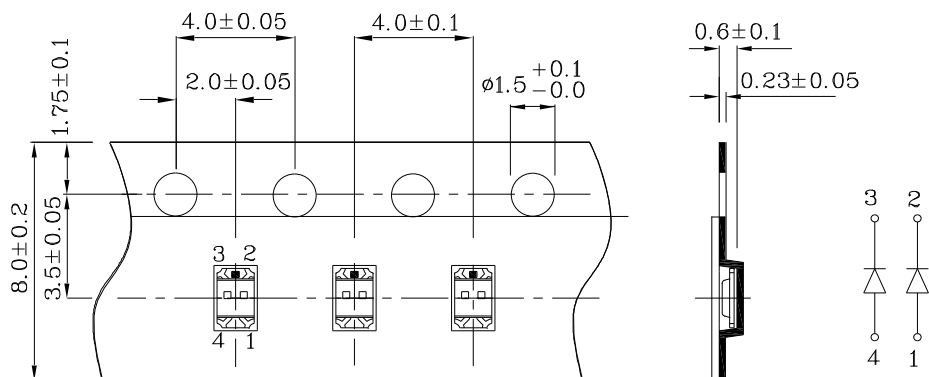


❖ The device has a single mounting surface. The device must be mounted according to the specifications.



❖ Tape Specification (Units : mm)

TAPE



Remarks:

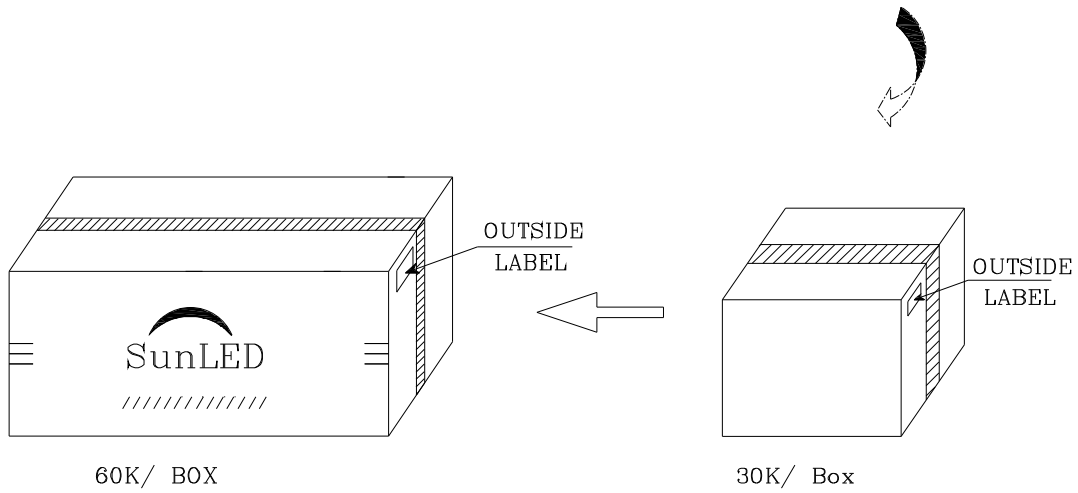
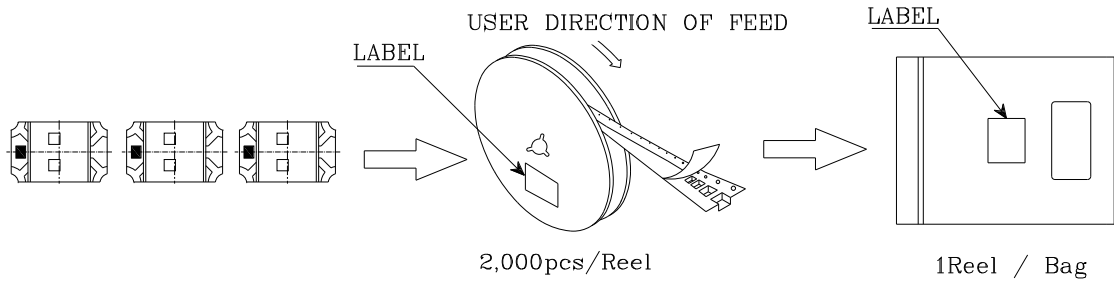

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

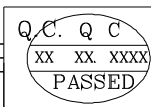

1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

ZURTMGT54W-4

| | |
|--|-----------|
|  | |
| P/NO : Zxxx54x-4 | |
| QTY : 2,000 pcs | CODE: XXX |
| S/N : XX | |
| LOT NO: | |
|  xxxxxxxxxxxxxxxxxxxxxx | |
| RoHS Compliant | |