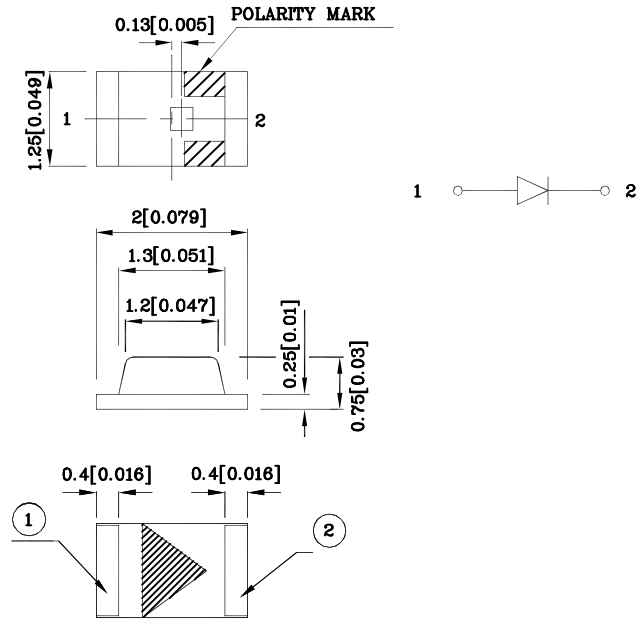


Features

- Ideal for indication light on hand held products
- Long life and robust package
- Variety of lens types and color choices available
- Package : 2000 pcs / reel
- Moisture sensitivity level : level 3
- RoHS compliant



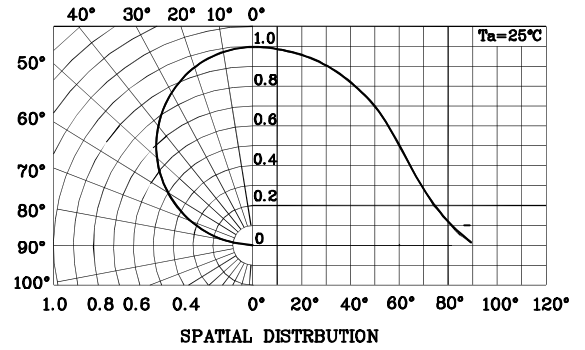
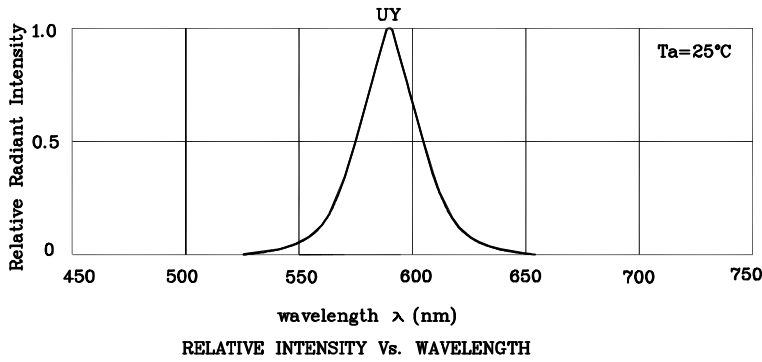
Package Schematics



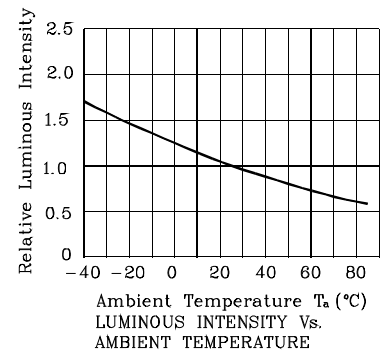
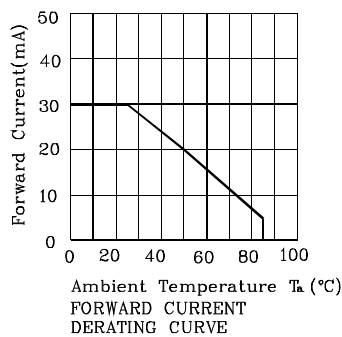
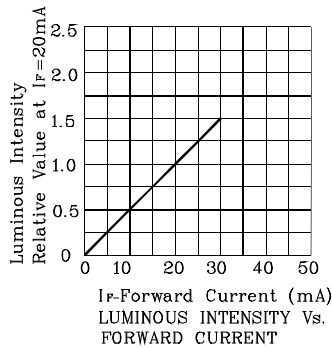
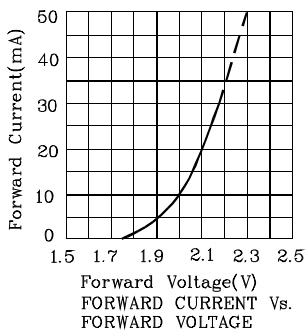
| Absolute Maximum Ratings (T _A =25°C) | | UY (GaAsP/ GaP) | Unit |
|--|------------------|-----------------------|------|
| Reverse Voltage | V _R | 5 | V |
| Forward Current | I _F | 30 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | i _{FS} | 140 | mA |
| Power Dissipation | P _D | 75 | mW |
| Operating Temperature | T _A | -40 ~ +85 | °C |
| Storage Temperature | T _{stg} | -40 ~ +85 | |

| Operating Characteristics (T _A =25°C) | | UY (GaAsP/GaP) | Unit |
|--|----------------|-------------------|------|
| Forward Voltage (Typ.) (I _F =20mA) | V _F | 2.1 | V |
| Forward Voltage (Max.) (I _F =20mA) | V _F | 2.5 | V |
| Reverse Current (Max.) (V _R =5V) | I _R | 10 | uA |
| Wavelength of Peak Emission (Typ.) (I _F =20mA) | λ _P | 590 | nm |
| Wavelength of Dominant Emission (Typ.) (I _F =20mA) | λ _D | 588 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA) | Δλ | 35 | nm |
| Capacitance (Typ.) (V _F =0V, f=1MHz) | C | 20 | pF |

| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (I _F =20mA) mcd | | Wavelength nm λ _P | Viewing Angle 2θ 1/2 |
|-------------|----------------|-------------------|-------------|---|------|------------------------------------|-------------------------|
| | | | | min. | typ. | | |
| ZUY54W-1 | Yellow | GaAsP/GaP | Water Clear | 5 | 7 | 590 | 120° |



❖ UY



LED is recommended for reflow soldering and soldering profile is shown below.

Reflow Soldering Profile for SMD Products (Pb-Free Components)

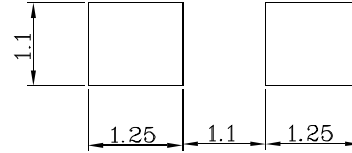
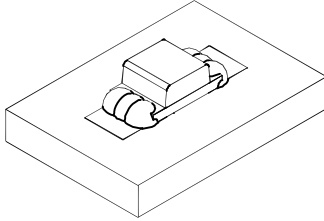


- Notes:
1. Maximum soldering temperature should not exceed 280°C
 2. Recommended reflow temperature: 145°C-280°C
 3. Do not put stress to the epoxy resin during high temperatures conditions



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

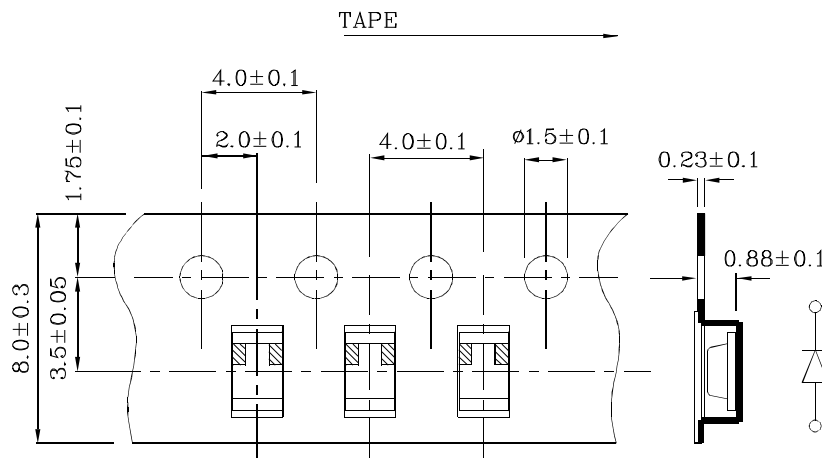
❖ Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)



❖ Reel Dimension



❖ Tape Specification (Units : mm)



Remarks:

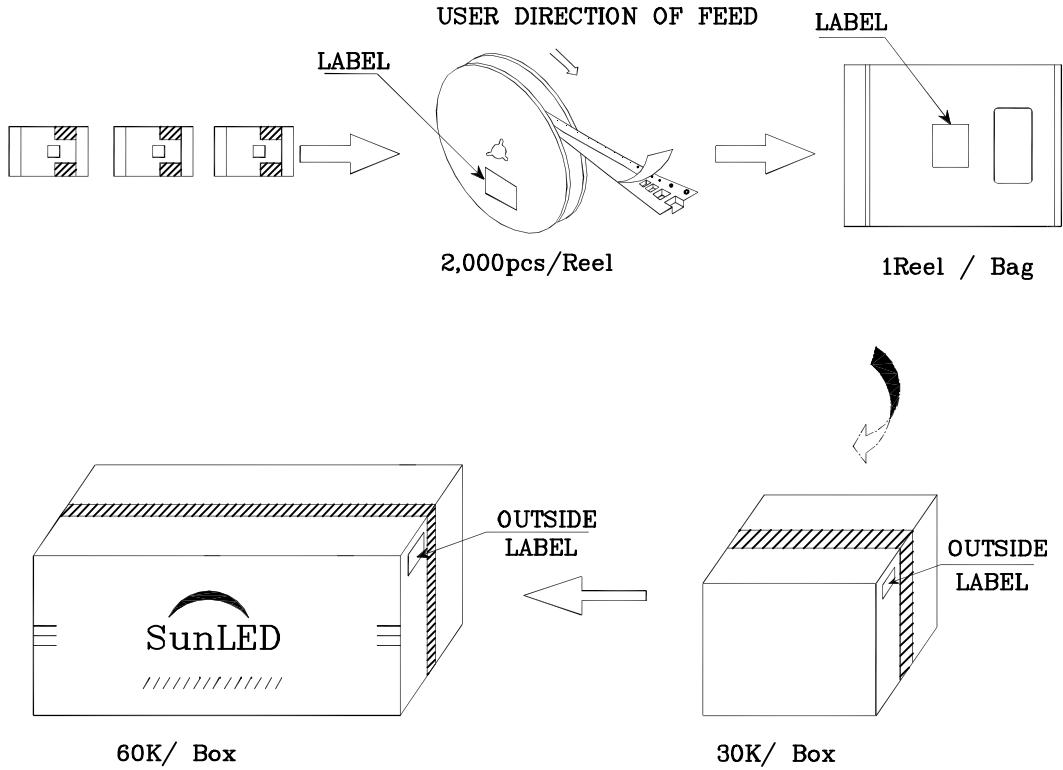

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: $\pm 1\text{nm}$
2. Luminous intensity / luminous flux: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$


Note: Accuracy may depend on the sorting parameters.



PACKING & LABEL SPECIFICATIONS

Q.C. Q.C
XX XX XXXX
PASSED

| | |
|--|-----------|
| P/NO : Zxxx54x-1 | |
| QTY : 2,000 pcs | CODE: XXX |
| S/N : XX | |
| LOT NO: | |
|  XXXXXXXXXXXXXXXXXXXXXXXX | |
| RoHS Compliant | |