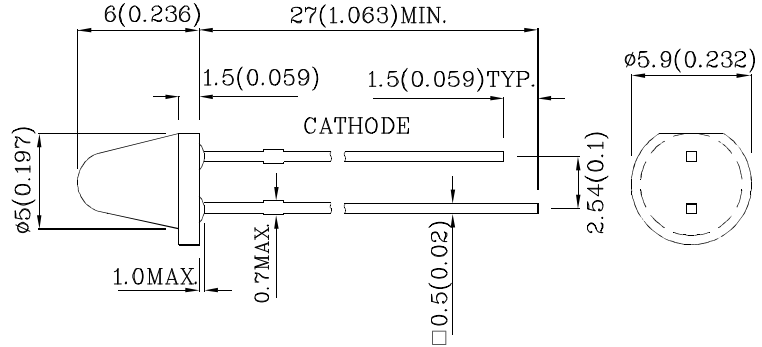


**Features**

- Radial / Through hole package
- Reliable & robust
- Low power consumption
- Available on tape and reel
- RoHS Compliant



**Package Schematics**



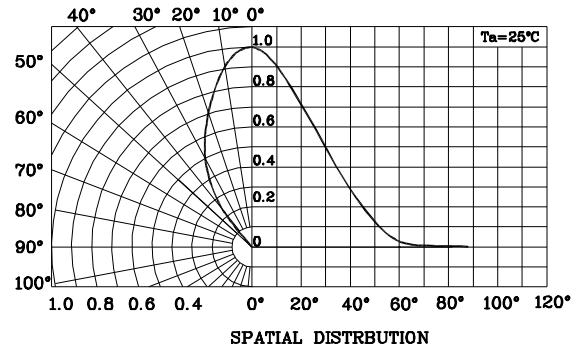
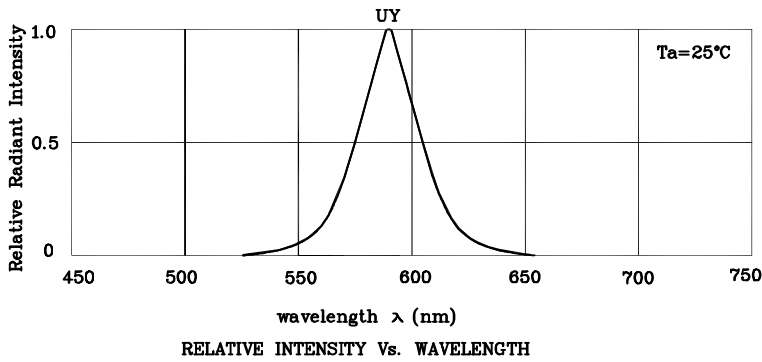
**Notes:**

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.

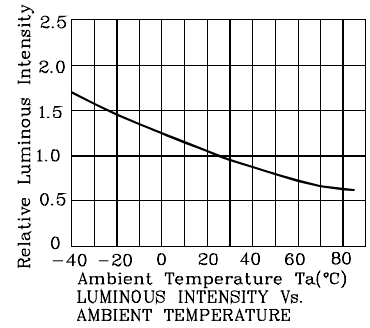
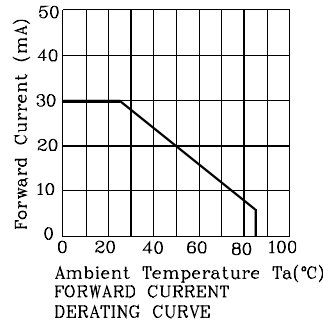
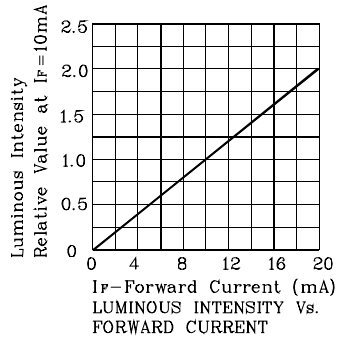
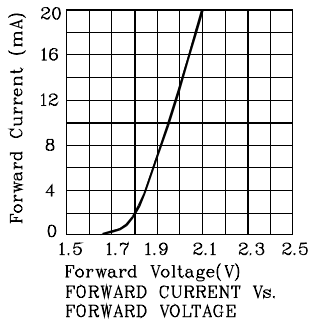
| Absolute Maximum Ratings<br>( $T_A=25^\circ\text{C}$ )         |                     | UY<br>(GaAsP/GaP) | Unit |
|--|---------------------|-------------------|------|
| Reverse Voltage  | $V_R$               | 5                 | V    |
| Forward Current  | $I_F$               | 30                | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>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         |      |
| Lead Solder Temperature<br>[2mm Below Package Base]            | 260°C For 3 Seconds |                   |      |
| Lead Solder Temperature<br>[5mm Below Package Base]            | 260°C For 5 Seconds |                   |      |

| Operating Characteristics<br>( $T_A=25^\circ\text{C}$ )                     |                 | UY<br>(GaAsP/GaP) | Unit          |
|---|-----------------|-------------------|---------------|
| Forward Voltage (Typ.)<br>( $I_F=10\text{mA}$ )                             | $V_F$           | 1.95              | V             |
| Forward Voltage (Max.)<br>( $I_F=10\text{mA}$ )                             | $V_F$           | 2.5               | V             |
| Reverse Current (Max.)<br>( $V_R=5\text{V}$ )                               | $I_R$           | 10                | $\mu\text{A}$ |
| Wavelength of Peak<br>Emission (Typ.)<br>( $I_F=10\text{mA}$ )              | $\lambda_P$     | 590               | nm            |
| Wavelength of Dominant<br>Emission (Typ.)<br>( $I_F=10\text{mA}$ )          | $\lambda_D$     | 588               | nm            |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>( $I_F=10\text{mA}$ ) | $\Delta\lambda$ | 35                | nm            |
| Capacitance (Typ.)<br>( $V_F=0\text{V}$ , $f=1\text{MHz}$ )                 | C               | 20                | pF            |

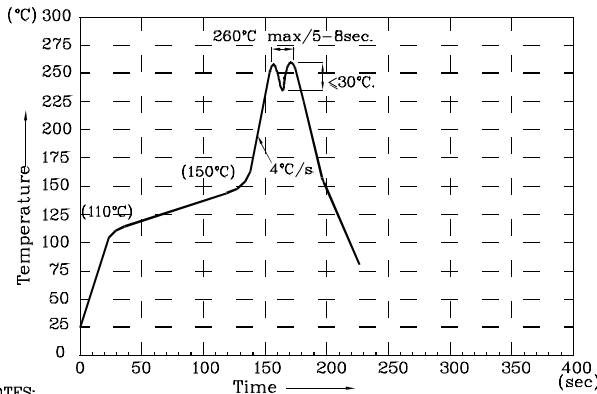
| Part Number | Emitting Color | Emitting Material | Lens-color      | Luminous Intensity<br>( $I_F=10\text{mA}$ )<br>mcd |      | Wavelength<br>nm<br>$\lambda_P$ | Viewing Angle<br>2 $\theta$ 1/2 |
|-------------|----------------|-------------------|-----------------|--|------|---------------------------------|---------------------------------|
|             |                |                   |                 | min.   | typ. |                                 |                                 |
| XLUY56D     | Yellow         | GaAsP/GaP         | Yellow Diffused | 5  | 9    | 590                             | 60°                             |



❖ UY



Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



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°C.
- 3.The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
- 4.During wave soldering, the PCB top-surface temperature should be kept below 105°C.
- 5.No more than once.

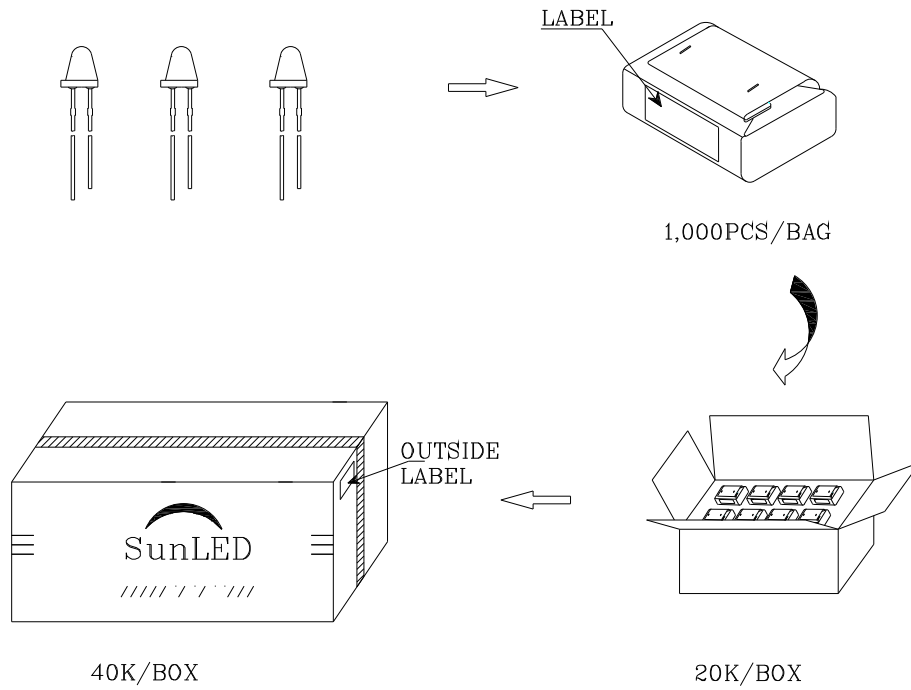
Remarks:


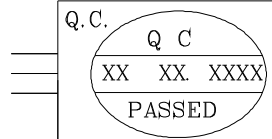

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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**



|  |           |  |
|--|-----------|--|
|                               |           |  |
| P/NO : XLxx56x   |           |  |
| QTY : 1,000 pcs  | CODE: XXX |  |
| S/N : XX   |           |  |
| LOT NO:  |           |  |
| <br>XXXXXXXXXXXXXXXXXXXXXXXX |           |  |
| RoHS Compliant   |           |  |