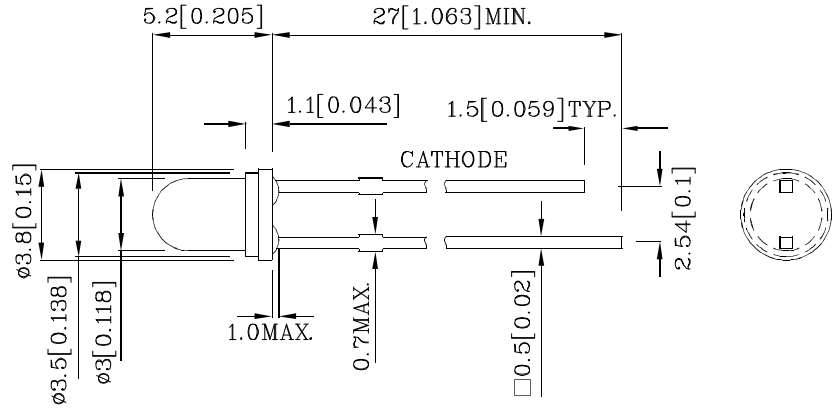


**Features**

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



**Package Schematics**



**Notes:**

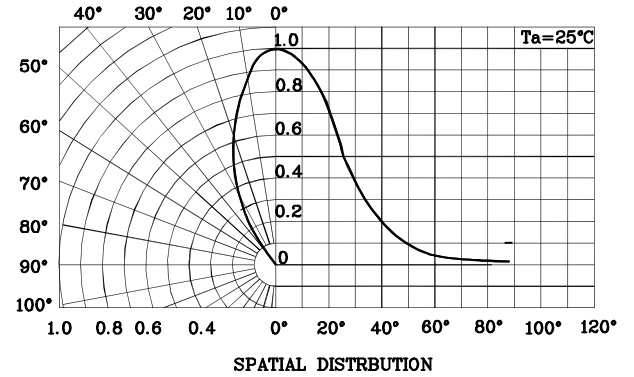
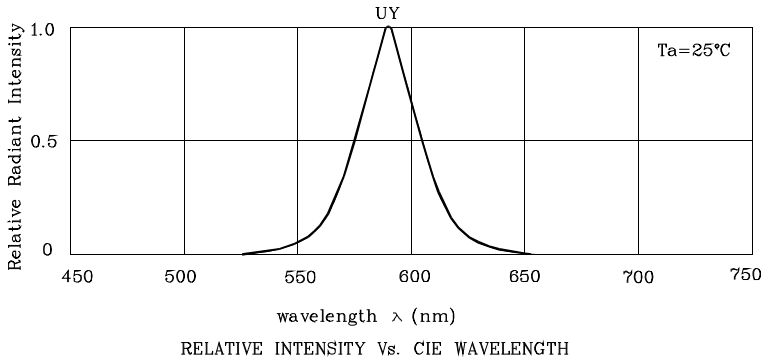
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
3. Specifications are subject to change without notice.

| 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 |                   |      |

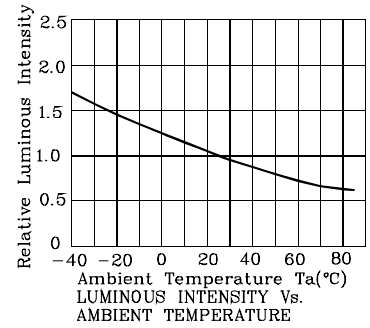
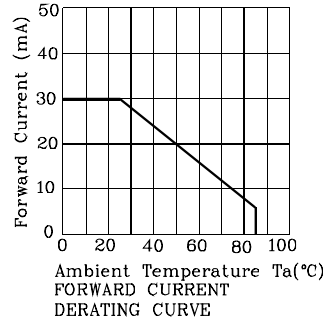
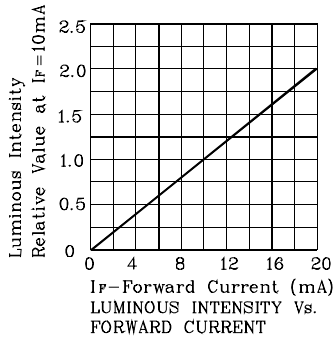
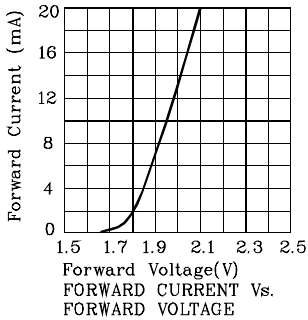
| Operating Characteristics<br>( $T_A=25^\circ\text{C}$ )                         |                 | UY<br>(GaAsP/GaP) | Unit          |
|---|-----------------|-------------------|---------------|
| Forward Voltage (Typ.)<br>( $I_F=10\text{mA}$ )                                 | $V_F$           | 1.95              | 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 CIE127-2007* (Typ.)<br>( $I_F=10\text{mA}$ )     | $\lambda_P$     | 590*              | nm            |
| Wavelength of Dominant<br>Emission CIE127-2007* (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>CIE127-2007*<br>( $I_F=10\text{mA}$ )<br>mcd |      | Wavelength<br>CIE127-2007*<br>nm<br>$\lambda_P$ | Viewing Angle<br>20 1/2 |
|-------------|----------------|-------------------|--------------------|--|------|---|-------------------------|
|             |                |                   |                    | min.   | typ. |   |                         |
| XLUY65C     | Yellow         | GaAsP/GaP         | Yellow Transparent | 10*  | 20*  | 590*  | 50°                     |

\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.



❖ UY



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



- Notes:
1. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 280°C
  2. Peak wave soldering temperature between 245°C ~ 255°C for 3 sec (5 sec max).
  3. Do not apply stress to the epoxy resin while the temperature is above 85°C.
  4. Fixtures should not incur stress on the component when mounting and during soldering process.
  5. SAC 305 solder alloy is recommended.
  6. No more than one wave soldering pass.

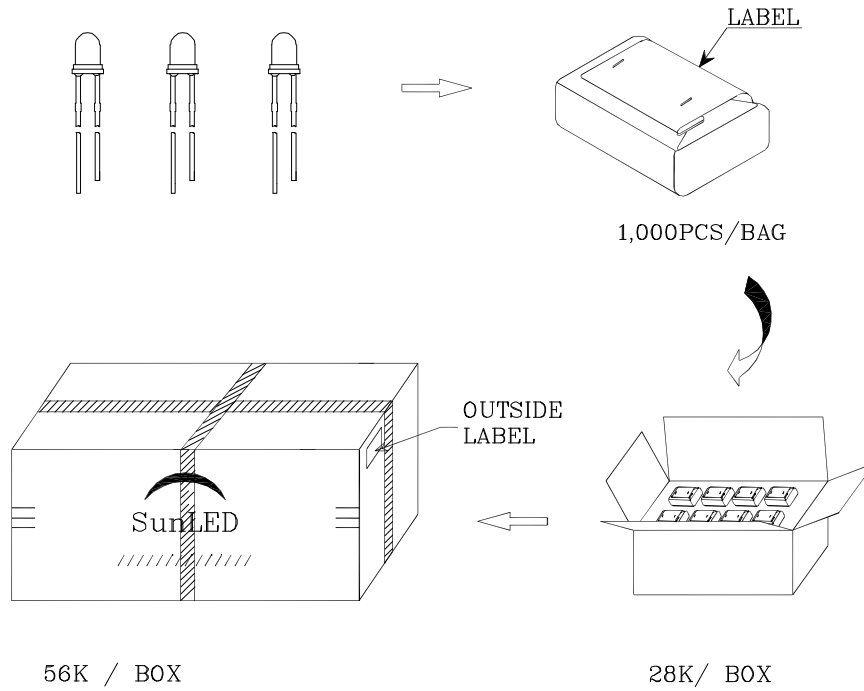

Remarks:

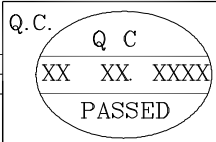

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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 : XLxx65x   |           |
| QTY : 1,000 pcs  | CODE: XXX |
| S/N : XX   |           |
| LOT NO:  |           |
| <br>XXXXXXXXXXXXXXXXXXXXXXXX |           |
| RoHS Compliant   |           |