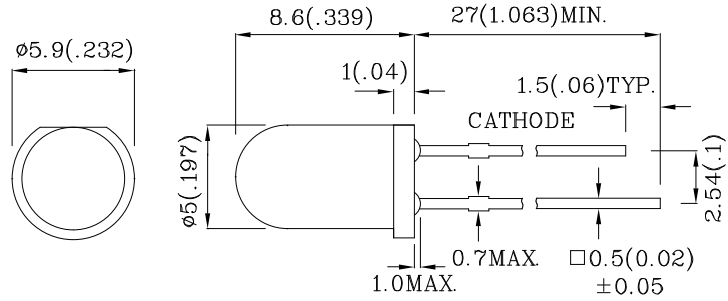


**Features**

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- 14V INTERNAL RESISTOR.
- RoHS COMPLIANT.



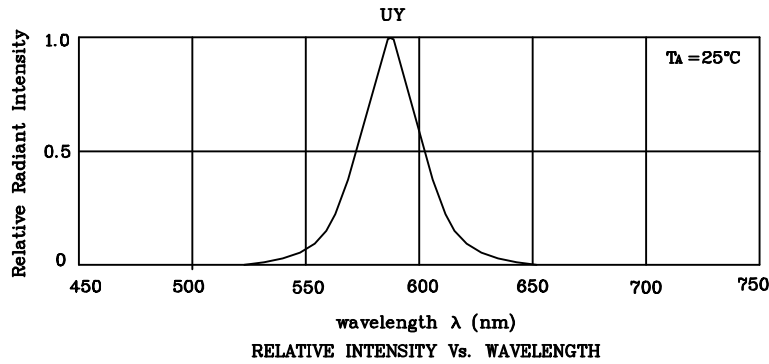
Notes:

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.

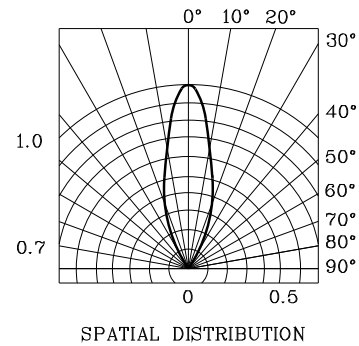
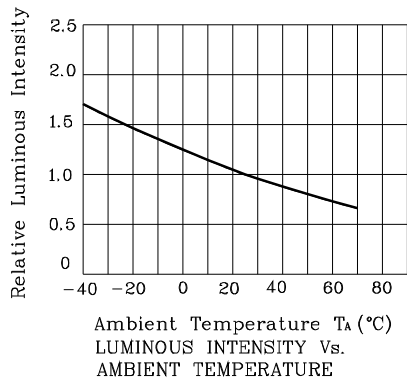
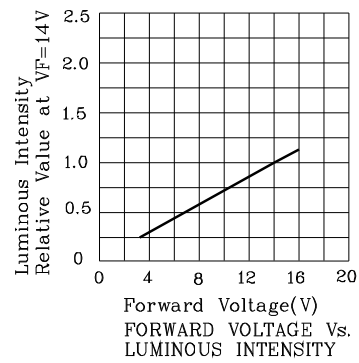
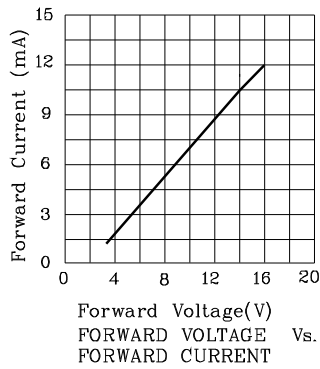
| Absolute maximum ratings<br>(TA=25°C)               |                     | UY<br>(GaAsP/GaP) | Unit |
|---|---------------------|-------------------|------|
| Reverse Voltage                                     | VR                  | 5                 | V    |
| Forward Voltage                                     | VF                  | 16                | V    |
| Power Dissipation                                   | PT                  | 160               | mW   |
| Operating Temperature                               | TA                  | -40 ~ +70         | °C   |
| Storage Temperature                                 | Tstg                | -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>(TA=25°C)                      |                 | UY<br>(GaAsP/GaP) | Unit |
|---|-----------------|-------------------|------|
| Forward Current (Typ.)<br>(VF=14V)                          | IF              | 10.5              | mA   |
| Forward Current (Max.)<br>(VF=14V)                          | IF              | 13.5              | mA   |
| Reverse Current (Max.)<br>(VR=5V)                           | IR              | 10                | uA   |
| Wavelength of Peak Emission (Typ.)<br>(VF=14V)              | $\lambda P$     | 590               | nm   |
| Spectral Line Full Width At Half-Maximum (Typ.)<br>(VF=14V) | $\lambda D$     | 588               | nm   |
| Spectral Line Half-Width<br>(VF=14V) (Typ.)                 | $\Delta\lambda$ | 35                | nm   |

| Part Number | Emitting Color | Emitting Material | Lens-color      | Luminous Intensity<br>(V=14V)<br>mcd |      | Wavelength<br>nm<br>$\lambda P$ | Viewing Angle<br>2 $\theta$ 1/2 |
|-------------|----------------|-------------------|-----------------|--------------------------------------|------|---------------------------------|---------------------------------|
|             |                |                   |                 | min.                                 | typ. |                                 |                                 |
| XLUY12D14V  | Yellow         | GaAsP/GaP         | Yellow Diffused | 5                                    | 15   | 590                             | 30°                             |



❖ UY



Wave Soldering Profile For Lead-free Through-hole LED.



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 degree°C.
3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
4. No more than once.

Remarks:

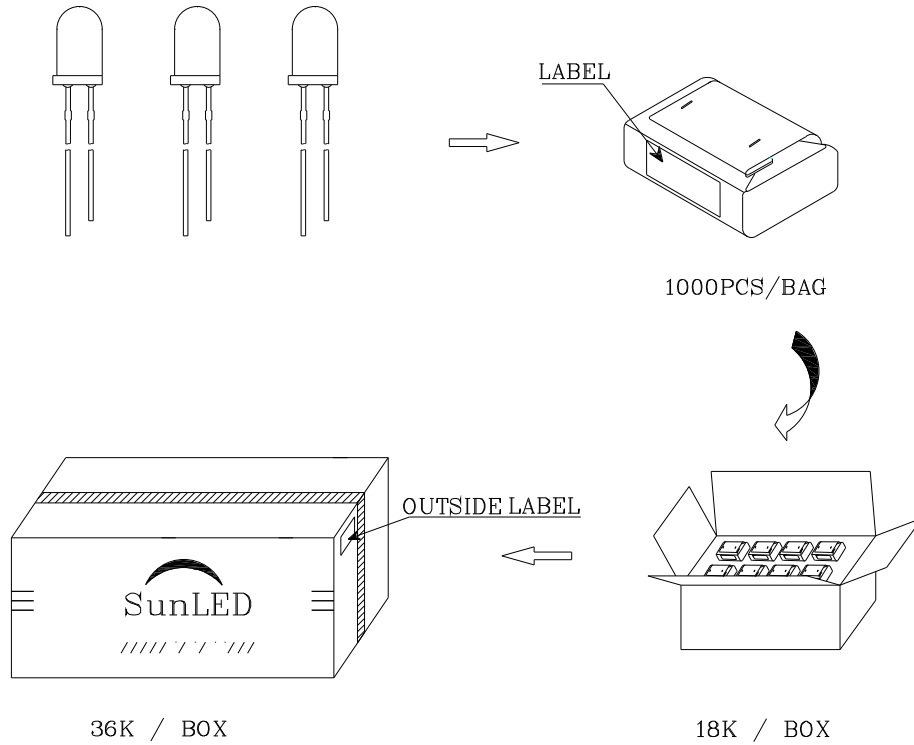

If special sorting is required (e.g. binning based on luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

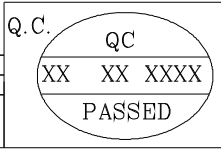

1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%

Note: Accuracy may depend on the sorting parameters.

**PACKING & LABEL SPECIFICATIONS**

**XLUY12D14V**

|  |           |
|--|-----------|
|                             |           |
| P/NO : XLxx12x   |           |
| QTY : 1000 pcs   | CODE: XXX |
| S/N : XX   |           |
| LOT NO:  |           |
| <br>xxxxxxxxxxxxxxxxxxxxxxxx |           |
| RoHS Compliant   |           |