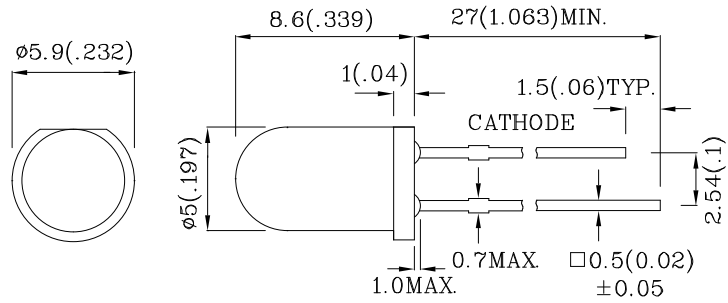


Features

- 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.
- 5V INTERNAL RESISTOR.
- RoHS COMPLIANT.



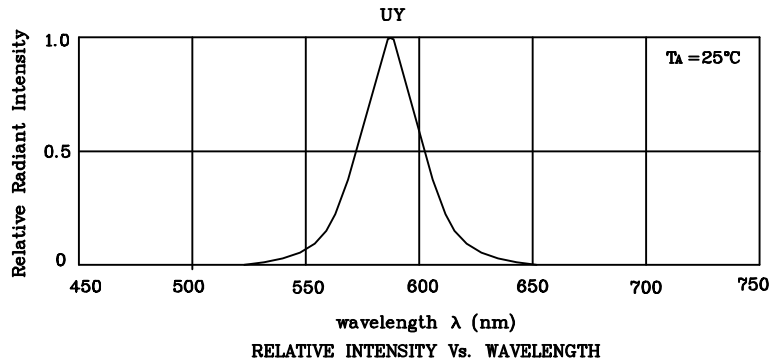
Notes:

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.

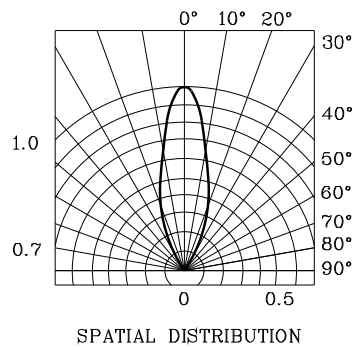
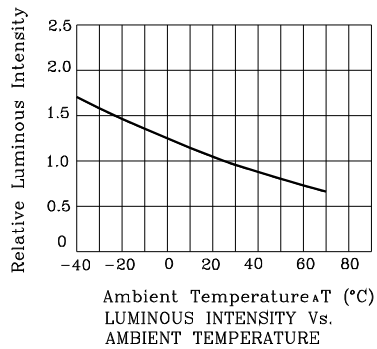
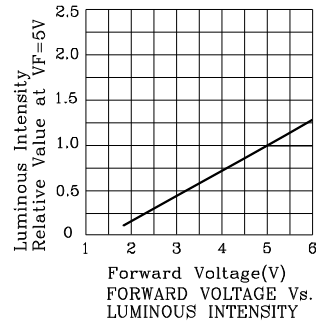
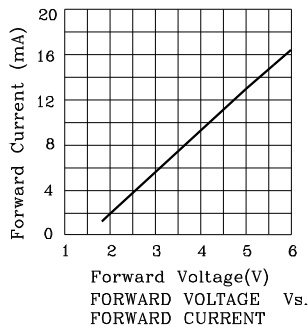
| Absolute Maximum Ratings (TA=25°C) | | UY (GaAsP/GaP) | Unit |
|---|---------------------|-------------------|------|
| Reverse Voltage | VR | 5 | V |
| Forward Voltage | VF | 6 | V |
| Power Dissipation | PT | 85 | mW |
| Operating Temperature | TA | -40 ~ +70 | °C |
| Storage Temperature | Tstg | -40 ~ +85 | |
| Lead Solder Temperature [2mm Below Package Base] | 260°C For 3 Seconds | | |
| Lead Solder Temperature [5mm Below Package Base] | 260°C For 5 Seconds | | |

| Operating Characteristics (TA=25°C) | | UY (GaAsP/GaP) | Unit |
|--|-----------------|-------------------|------|
| Forward Current (Typ.) (VF=5V) | IF | 13 | mA |
| Forward Current (Max.) (VF=5V) | IF | 17.5 | mA |
| Reverse Current (Max.) (VR=5V) | IR | 10 | uA |
| Wavelength of Peak Emission (Typ.) (VF=5V) | λP | 590 | nm |
| Wavelength of Dominant Emission (Typ.) (VF=5V) | λD | 588 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (VF=5V) | $\Delta\lambda$ | 35 | nm |

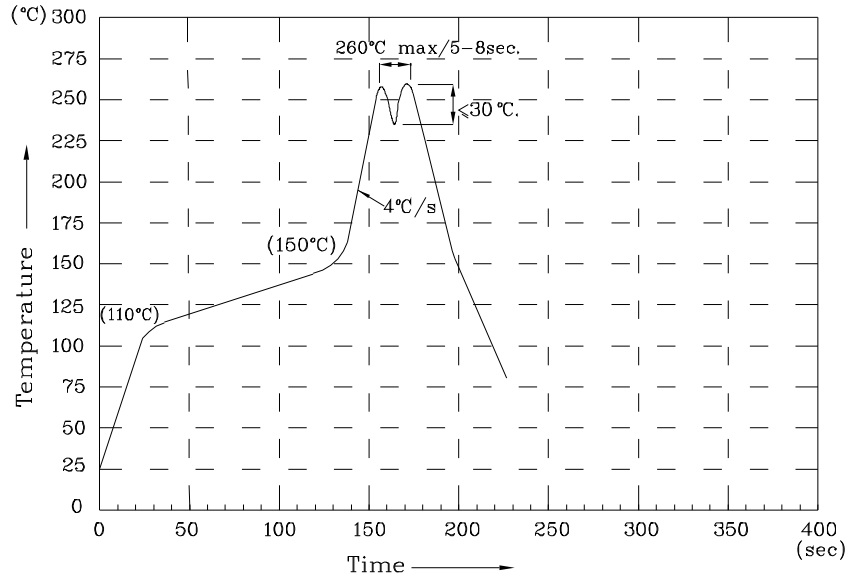
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (V=5V) mcd | | Wavelength nm λP | Viewing Angle 2 θ 1/2 |
|-------------|----------------|-------------------|-----------------|-------------------------------------|------|---------------------------------|---------------------------------|
| | | | | min. | typ. | | |
| XLUY12D5V | Yellow | GaAsP/GaP | Yellow Diffused | 5 | 19 | 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:

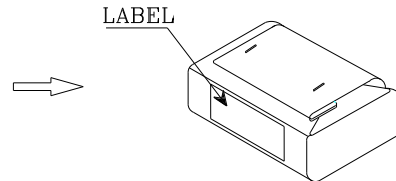
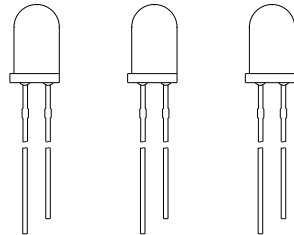
If special sorting is required (e.g. binning based on luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

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

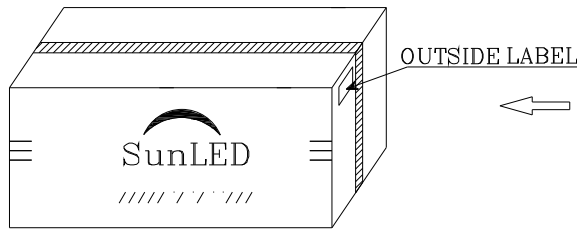
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

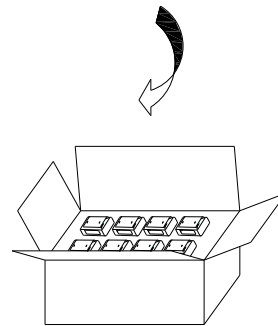
XLUY12D5V



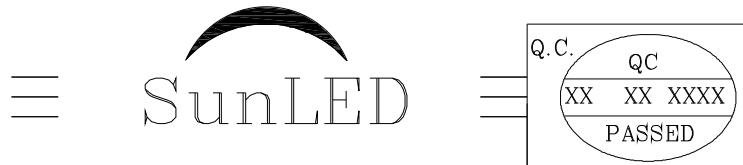
1000PCS/BAG



36K / BOX



18K / BOX



P/NO : XLxx12x

QTY : 1000 pcs

CODE: XXX

S/N : XX

LOT NO:



RoHS Compliant