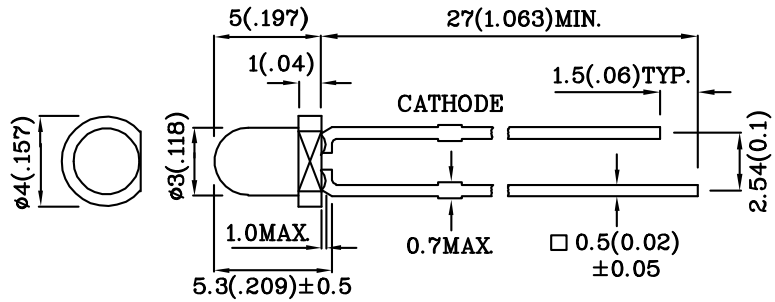


Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.



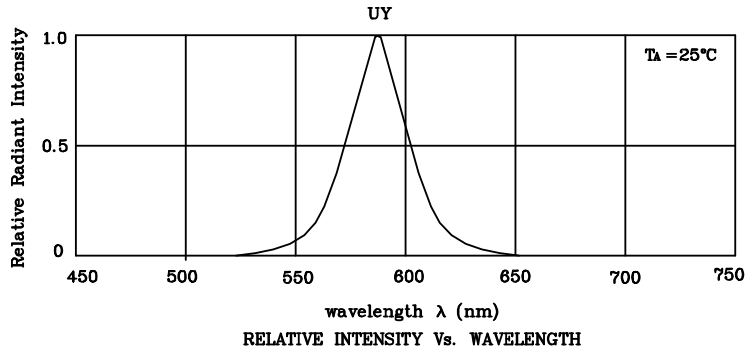
Notes:

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

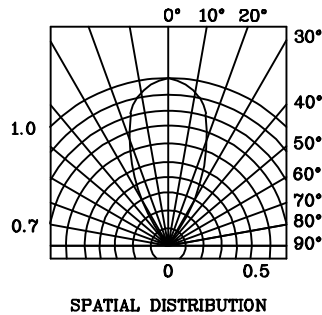
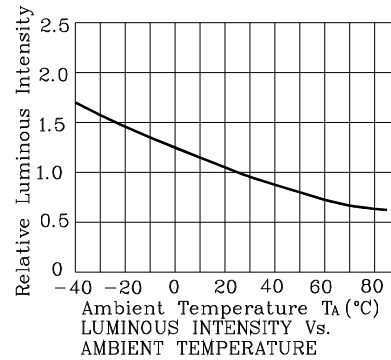
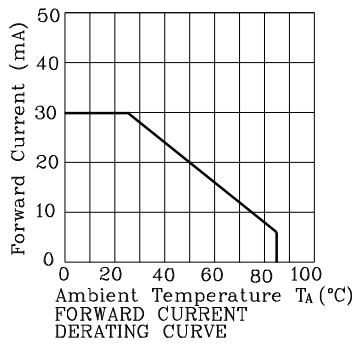
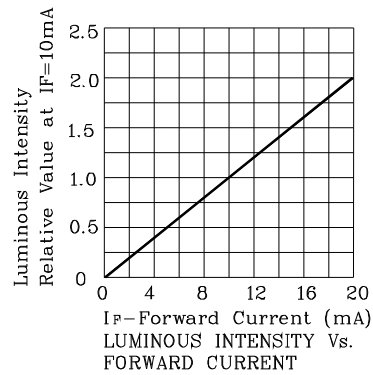
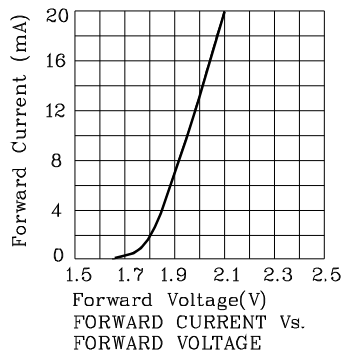
| Absolute Maximum Ratings ($T_A=25^\circ\text{C}$) | | UY (GaAsP/ GaP) | Unit |
|--|---------------------|-----------------------|------|
| Reverse Voltage | V_R | 5 | V |
| Forward Current | I_F | 30 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | i_{FS} | 140 | mA |
| Power Dissipation | P_T | 75 | mW |
| Operating Temperature | T_A | -40 ~ +85 | °C |
| Storage Temperature | T_{stg} | -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 ($T_A=25^\circ\text{C}$) | | UY (GaAsP/GaP) | Unit |
|---|-----------------|-------------------|---------------|
| Forward Voltage (Typ.) ($I_F=10\text{mA}$) | V_F | 1.95 | V |
| Forward Voltage (Max.) ($I_F=10\text{mA}$) | V_F | 2.5 | V |
| Reverse Current (Max.) ($V_R=5\text{V}$) | I_R | 10 | μA |
| Wavelength Of Peak Emission (Typ.) ($I_F=10\text{mA}$) | λ_P | 590 | nm |
| Wavelength Of Dominant Emission (Typ.) ($I_F=10\text{mA}$) | λ_D | 588 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=10\text{mA}$) | $\Delta\lambda$ | 35 | nm |
| Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$) | C | 20 | pF |

| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity ($I_F=10\text{mA}$) | | Wavelength nm λ_P | Viewing Angle 2θ 1/2 |
|------------------------------|----------------|-------------------|--------------------|---|------|---------------------------------|--------------------------------|
| | | | | min. | typ. | | |
| XLUY39C | Yellow | GaAsP/GaP | Yellow Transparent | 8 | 19 | 590 | 50° |
| Published Date : JAN 15,2008 | | | | Drawing No :XDSA2365 | | V4 Checked : B.L.LIU P.1/4 | |

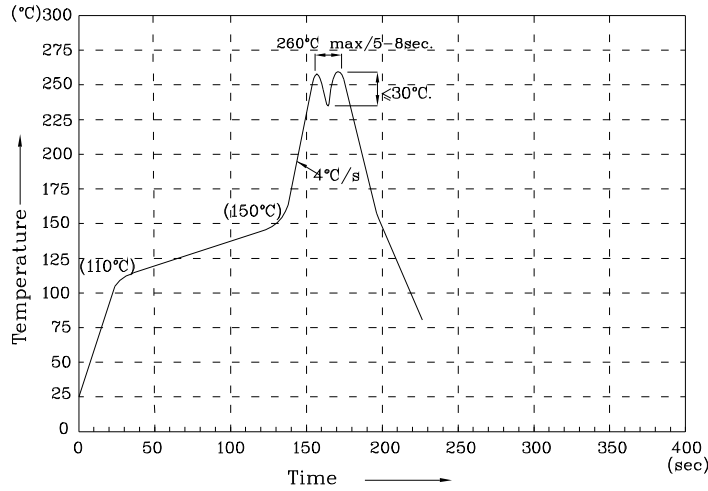


❖ UY



XLUY39C

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 forward voltage, luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

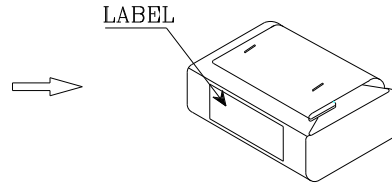
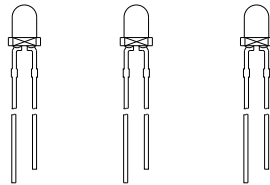
1. Wavelength: +/-1nm
2. Luminous Intensity / luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

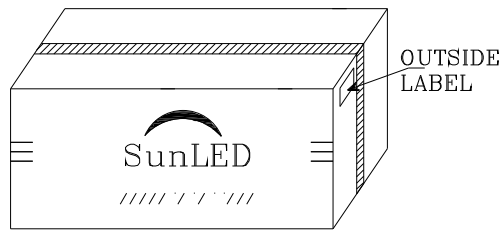


PACKING & LABEL SPECIFICATIONS

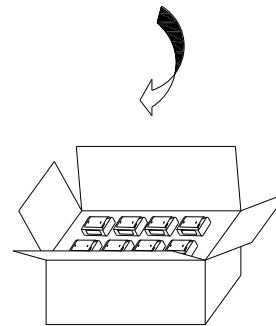
XLUY39C




1,000PCS/BAG




56K/ BOX



28K/ BOX



Q.C. Q C
 XX XX XXXX
 PASSED

| | |
|---|-----------|
| P/NO : XLxx39x | |
| QTY : 1,000 pcs | CODE: XXX |
| S/N : XX | |
| LOT NO: | |
|  XXXXXXXXXXXXXXXXXXXXX | |
| RoHS Compliant | |