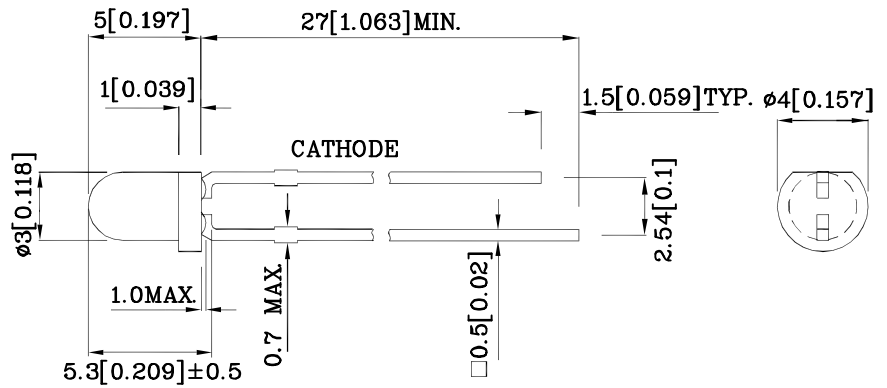


**Features**

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



**Package Schematics**



**Notes:**

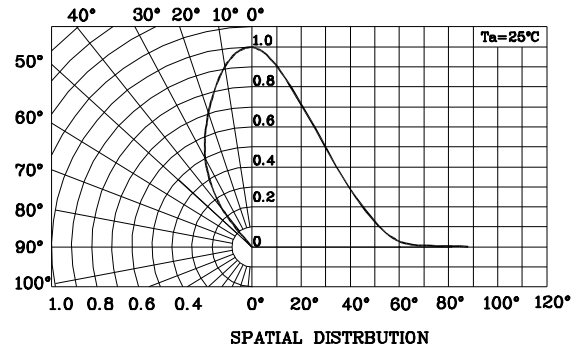
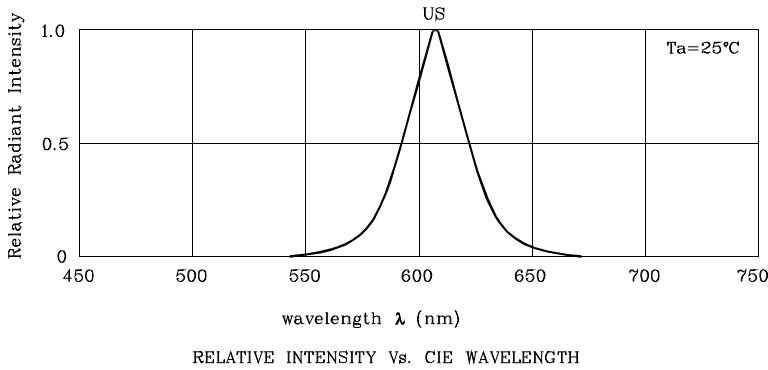
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

| Absolute Maximum Ratings<br>(T <sub>A</sub> =25°C)             |                     | US<br>(GaAsP/GaP) | Unit |
|--|---------------------|-------------------|------|
| Reverse Voltage  | V <sub>R</sub>      | 5                 | V    |
| Forward Current  | I <sub>F</sub>      | 25                | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | i <sub>FS</sub>     | 145               | mA   |
| Power Dissipation  | P <sub>D</sub>      | 62.5              | mW   |
| Operating Temperature  | T <sub>A</sub>      | -40 ~ +85         | °C   |
| Storage Temperature  | T <sub>stg</sub>    | -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 |                   |      |

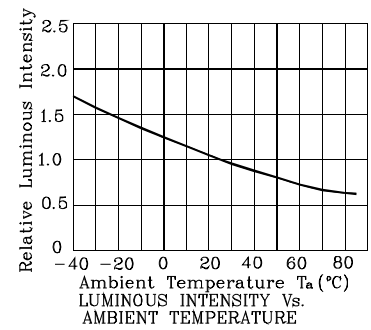
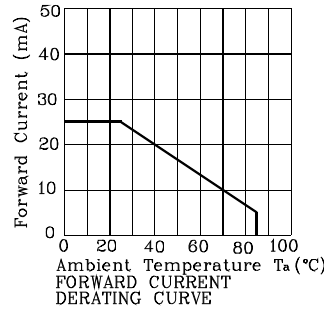
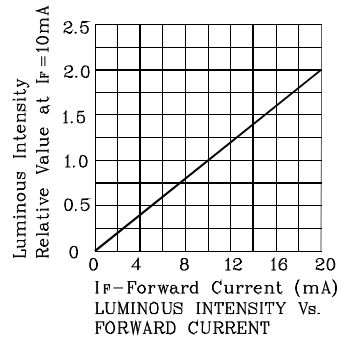
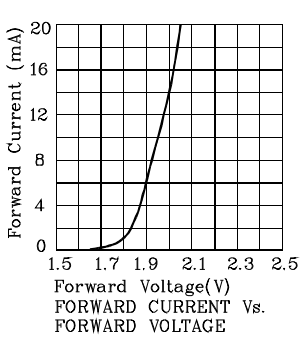
| Operating Characteristics<br>(T <sub>A</sub> =25°C)                              |                | US<br>(GaAsP/<br>GaP) | Unit |
|--|----------------|-----------------------|------|
| Forward Voltage (Typ.)<br>(I <sub>F</sub> =10mA)                                 | V <sub>F</sub> | 1.95                  | V    |
| Forward Voltage (Max.)<br>(I <sub>F</sub> =10mA)                                 | V <sub>F</sub> | 2.5                   | V    |
| Reverse Current (Max.)<br>(V <sub>R</sub> =5V)                                   | I <sub>R</sub> | 10                    | uA   |
| Wavelength of Peak<br>Emission CIE127-2007* (Typ.)<br>(I <sub>F</sub> =10mA)     | λ <sub>P</sub> | 607<br>607*           | nm   |
| Wavelength of Dominant<br>Emission CIE127-2007* (Typ.)<br>(I <sub>F</sub> =10mA) | λ <sub>D</sub> | 610<br>602*           | nm   |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(I <sub>F</sub> =10mA)     | Δλ             | 35                    | nm   |
| Capacitance (Typ.)<br>(V <sub>F</sub> =0V, f=1MHz)                               | C              | 15                    | pF   |

| Part<br>Number | Emitting<br>Color | Emitting<br>Material | Lens-color      | Luminous Intensity<br>CIE127-2007*<br>(I <sub>F</sub> =10mA)<br>mcd |           | Wavelength<br>CIE127-2007*<br>nm<br>λ <sub>P</sub> | Viewing<br>Angle<br>2θ 1/2 |
|----------------|-------------------|----------------------|-----------------|---|-----------|--|----------------------------|
|                |                   |                      |                 | min.  | typ.      |  |                            |
| XLUS34D        | Orange            | GaAsP/GaP            | Orange Diffused | 14<br>6*  | 29<br>15* | 607*   | 60°                        |

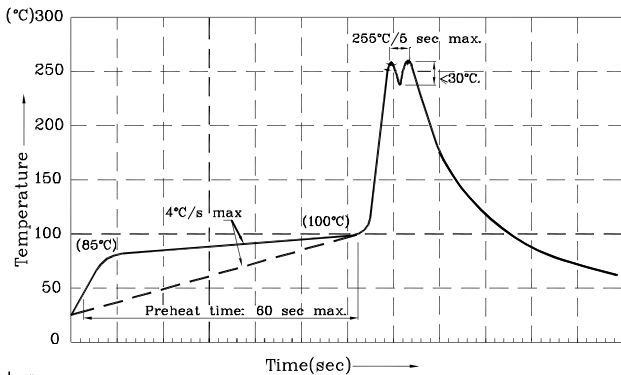
\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.



❖ US



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.

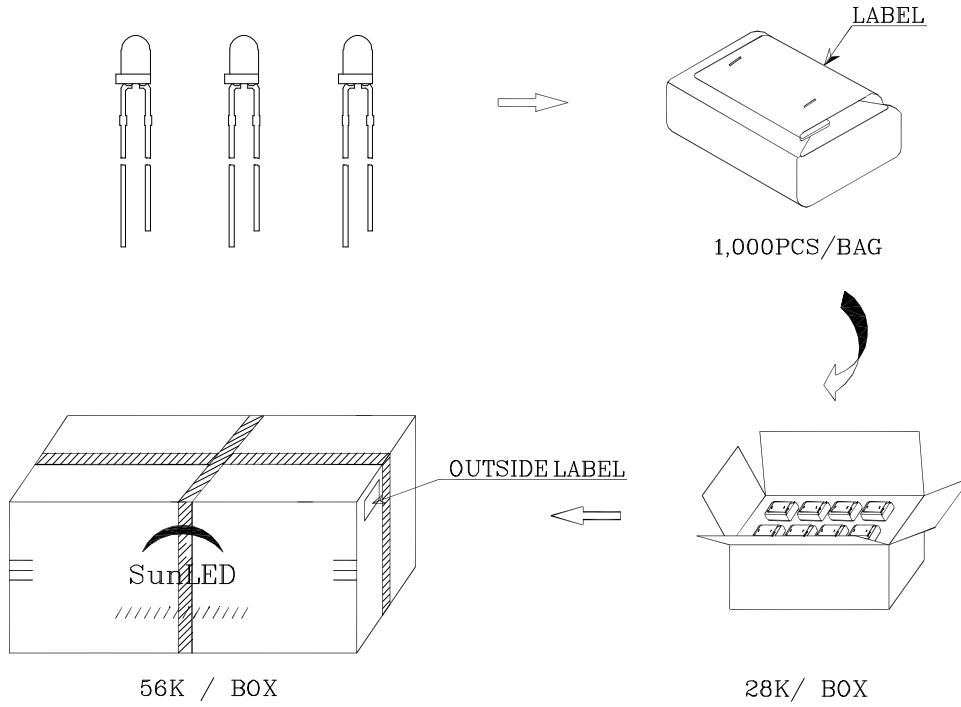

Remarks:

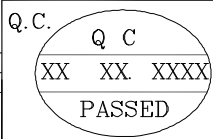

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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 : XLxx34x   |           |
| QTY : 1,000 pcs  | CODE: XXX |
| S/N : XX   |           |
| LOT NO:  |           |
| <br>XXXXXXXXXXXXXXXXXXXX |           |
| RoHS Compliant   |           |