

# T-1 (3mm) SOLID STATE LAMP

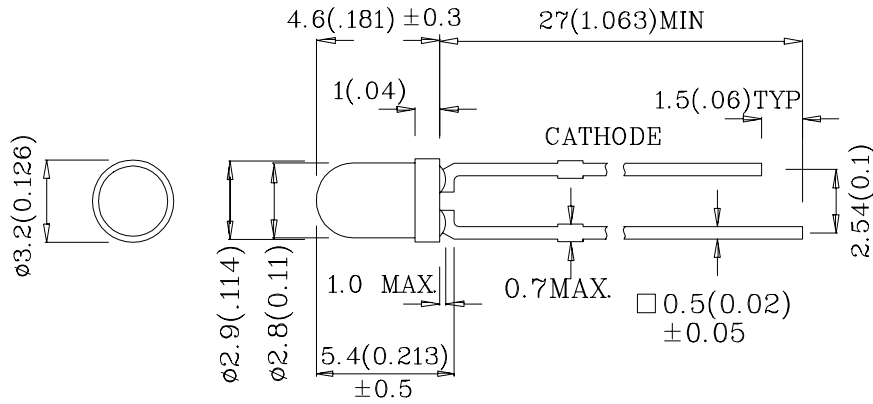


# SUN LED

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XLUS32C



**Notes:**

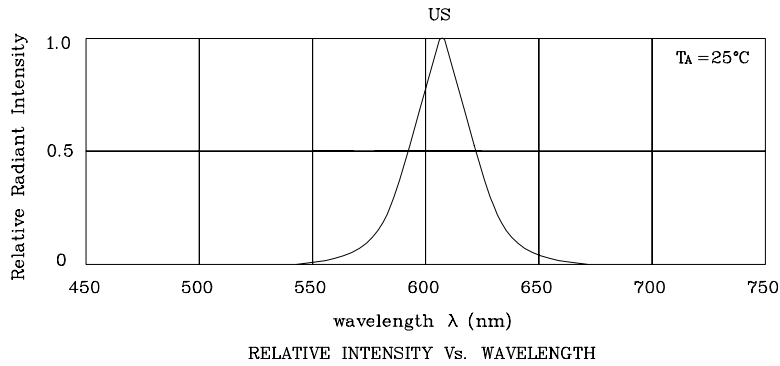
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.

| 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>1/10Duty cycle<br>0.1ms pulse width | i <sub>FS</sub>     | 145               | mA   |
| Power dissipation   | P <sub>T</sub>      | 105               | mW   |
| Operating temperature   | T <sub>A</sub>      | -40 ~ +85         | °C   |
| Storage temperature   | T <sub>stg</sub>    |                   |      |
| Lead solder temperature<br>[2mm below package base]           | 260°C For 5 Seconds |                   |      |

| Operating Characteristics<br>(T <sub>A</sub> =25°C)          |                   | US<br>(GaAsP/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<br>(V <sub>R</sub> =5V)                      | I <sub>R</sub>    | 10                | uA   |
| Wavelength at peak<br>emission<br>(I <sub>F</sub> =10mA)     | λ <sub>peak</sub> | 607               | nm   |
| Wavelength at Dominate<br>emission<br>(I <sub>F</sub> =10mA) | λ <sub>D</sub>    | 610               | nm   |
| Spectral Line half-width<br>(I <sub>F</sub> =10mA)           | Δλ                | 35                | nm   |
| Capacitance<br>(V <sub>F</sub> =0V, f=MHz)                   | C                 | 15                | pF   |

| Part Number | Emitting Color | Emitting Material | Lens-color         | Luminous Intensity<br>(I <sub>F</sub> =10mA)<br>mcd |      | Wavelength<br>nm<br>λ <sub>P</sub> | Viewing Angle<br>2θ <sub>1/2</sub> |
|-------------|----------------|-------------------|--------------------|---|------|------------------------------------|------------------------------------|
|             |                |                   |                    | min.  | typ. |                                    |                                    |
| XLUS32C     | Orange         | GaAsP/GaP         | Orange Transparent | 20  | 48   | 607                                | 50°                                |

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