

## T-1 3/4 (5mm) SOLID STATE LAMP

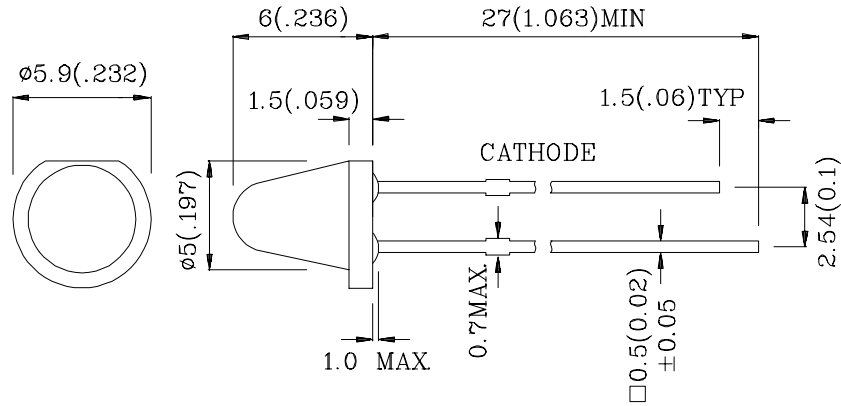
XLUR56C



# SUN LED

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### Notes:

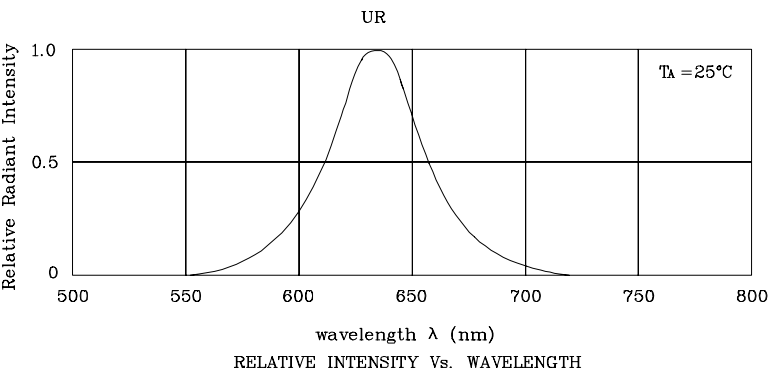
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.

| Absolute maximum ratings<br>(T <sub>A</sub> =25°C)            |                  | UR<br>(GaAsP/GaP)   | Unit |
|---------------------------------------------------------------|------------------|---------------------|------|
| Reverse voltage                                               | V <sub>R</sub>   | 5                   | V    |
| Forward current                                               | I <sub>F</sub>   | 30                  | mA   |
| Forward current (peak)<br>1/10Duty cycle<br>0.1ms pulse width | i <sub>FS</sub>  | 160                 | 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)          |                   | UR<br>(GaAsP/GaP) | Unit |
|--------------------------------------------------------------|-------------------|-------------------|------|
| Forward voltage (typ.)<br>(I <sub>F</sub> =10mA)             | V <sub>F</sub>    | 1.9               | 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> | 627               | nm   |
| Wavelength at Dominate<br>emission<br>(I <sub>F</sub> =10mA) | λ <sub>D</sub>    | 625               | nm   |
| Spectral Line half-width<br>(I <sub>F</sub> =10mA)           | Δλ                | 45                | nm   |
| Capacitance<br>(V <sub>F</sub> =0V, f=1MHz)                  | C                 | 15                | pF   |

| Part<br>Number | Emitting<br>Color | Emitting<br>Material | Lens-color      | Luminous<br>Intensity<br>(I <sub>F</sub> =10mA)<br>mcd |      | Wavelength<br>nm<br>λ <sub>P</sub> | Viewing<br>Angle<br>2θ1/2 |
|----------------|-------------------|----------------------|-----------------|--------------------------------------------------------|------|------------------------------------|---------------------------|
|                |                   |                      |                 | min.                                                   | typ. |                                    |                           |
| XLUR56C        | Red               | GaAsP/GaP            | Red Transparent | 30                                                     | 45   | 627                                | 30°                       |

XLUR56C



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