

Part Number: ZUR56W

3.0mmx1.0 mm RIGHT ANGLE SMD CHIP LED LAMP

Features

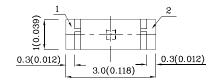
- \bullet Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- \bullet MSL (Moisture Sensitivity Level): 3
- RoHS compliant

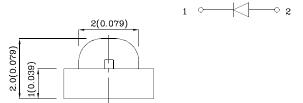
Feb 19,2014

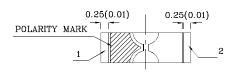




Package Schematics







Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.15(0.006")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.

| Absolute Maximum Ratings (T _A =25°C) | UR (GaAsP/ GaP) | Unit | | |
|--|-----------------------|-----------|----|--|
| Reverse Voltage | $V_{\rm R}$ | 5 | V | |
| Forward Current | I_{F} | 30 | mA | |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | i_{FS} | 160 | mA | |
| Power Dissipation | P_{D} | 75 | mW | |
| Operating Temperature | $T_{\rm A}$ | -40 ~ +85 | °C | |
| Storage Temperature | Tstg | -40 ~ +85 | C | |

| Operating Characteristics (T _A =25°C) | UR (GaAsP/GaP) | Unit | | |
|--|-------------------|------|----|--|
| Forward Voltage (Typ.) (I _F =20mA) | V_{F} | 2 | V | |
| Forward Voltage (Max.) (I _F =20mA) | V_{F} | 2.5 | V | |
| Reverse Current (Max.) $(V_R=5V)$ | I_R | 10 | uA | |
| Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA) | λP | 627* | nm | |
| Wavelength of Dominant Emission CIE127-2007* (Typ.) $(I_F=20\text{mA})$ | λD | 617* | nm | |
| Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA) | Δλ | 45 | nm | |
| Capacitance (Typ.) (V _F =0V, f=1MHz) | С | 15 | pF | |

| : | Part Number | Emitting Color | Emitting Material | Lens-color | $\begin{array}{c} Luminous \ Intensity \\ CIE127\text{-}2007* \\ (I_F\text{=}20\text{mA}) \\ mcd \end{array}$ | Wavelength CIE127-2007* nm λP | Viewing Angle 20 1/2 |
|---|----------------|-------------------|----------------------|------------|---|--|----------------------------|
| | | | | | | | |

| | | | | min. | typ. | | |
|--------|-----|-----------|-------------|---------|----------|------|------|
| ZUR56W | Red | GaAsP/GaP | Water Clear | 8 3* | 14 5* | 627* | 120° |

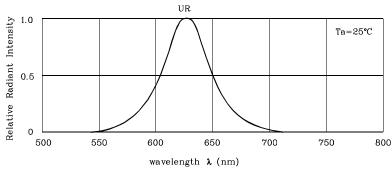
^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

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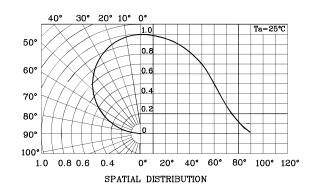
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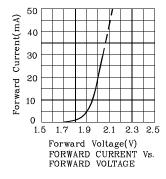


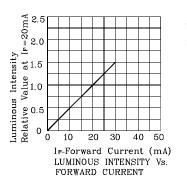


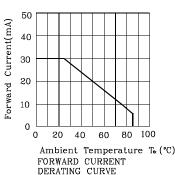
RELATIVE INTENSITY Vs. CIE WAVELENGTH

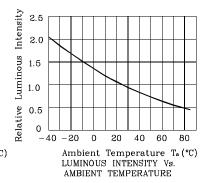


\$ UR



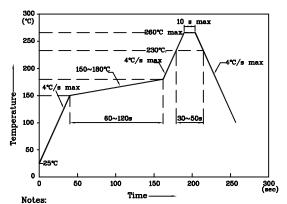






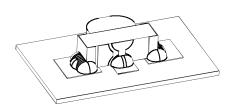
LED is recommended for reflow soldering and soldering profile is shown below.

Reflow Soldering Profile for SMD Products (Pb-Free Components)

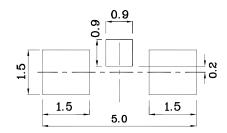


- 1. Maximum soldering temperature should not exceed 260°C
- 2. Recommended reflow temperature: 145°C-260°C
- 3. Do not put stress to the epoxy resin during high temperatures conditions

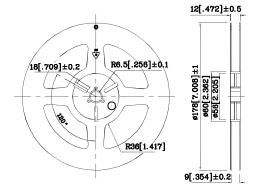
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



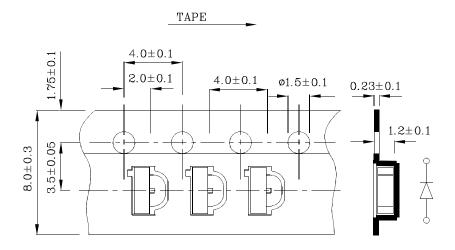
♦ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



❖ Reel Dimension



❖ Tape Specification (Units:mm)



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:

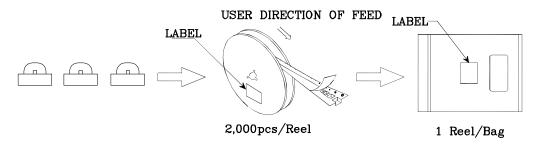
- 1. Wavelength: +/-1nm
- 2. Luminous intensity / luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

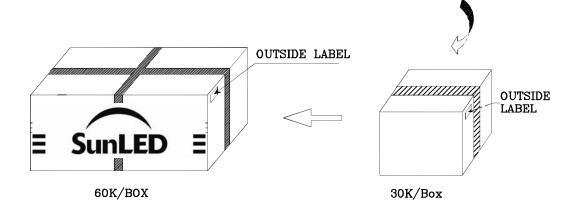
Note: Accuracy may depend on the sorting parameters.

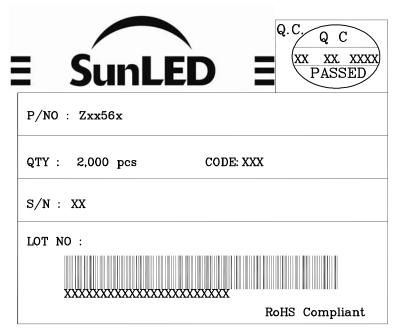
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CHIP LED LAMP

PACKING & LABEL SPECIFICATIONS







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