



2.8X0.8mm RIGHT ANGLE SMD CHIP LED LAMP

Features

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



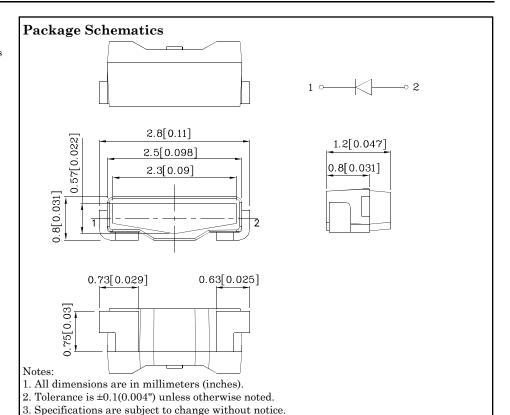




Storage Temperature

ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



Absolute Maximum Ratings (T _A =25°C)		Green (AlGaInP)	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	ifs	150	mA
Power Dissipation	P_{D}	75	mW
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C

A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

Tstg

-40 ~ +85

Operating Characteristics (T _A =25°C)	Green (AlGaInP)	Unit		
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	2.1	V	
Forward Voltage (Max.) (I _F =20mA)	V_{F}	2.5	V	
Reverse Current (Max.) $(V_R=5V)$	${ m I}_{ m R}$	10	μА	
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	λΡ	574*	nm	
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	570*		
Spectral Line Full Width At Half-Maximum (Typ.) $\triangle \lambda$ I _F =20mA)		20	nm	
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	pF	

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZVG81FS	Green	AlGaInP	Water Clear	40*	69*	574*	110°

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

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Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force.

As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might lead to damage and premature failure of the LED.

1.Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.

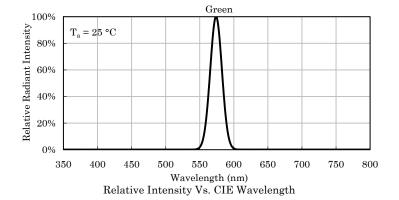


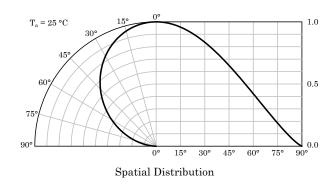
2. As silicone encapsulation is permeable to gases, some corrosive substances such as H_2S might corrode silver plating of leadframe. Special care should be taken if an LED with silicone encapsulation is to be used near such substances.

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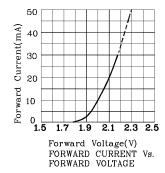


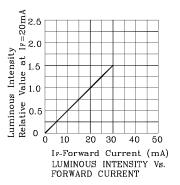


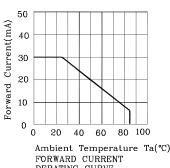


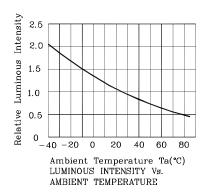


Green



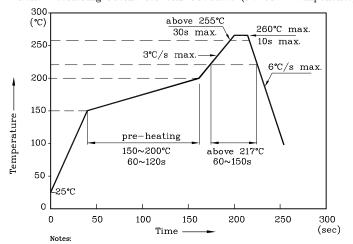






LED is recommended for reflow soldering and soldering profile is shown below.

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



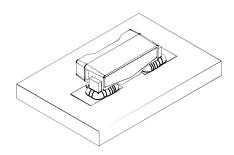
- 1. All temperatures refer to the center of the package, measured on the package body surface facing up during reflow.
- 2. Do not apply any stress to the LED during high temperature conditions.
- Maximum number of soldering passes: 2

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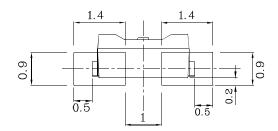




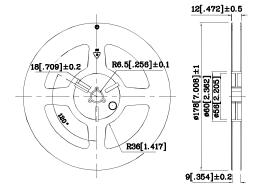
♦ The device has a single mounting surface. The device must be mounted according to the specifications.



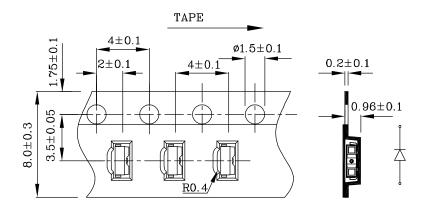
♦ Recommended Soldering Pattern (Units:mm; Tolerance: ± 0.1)



❖ 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:

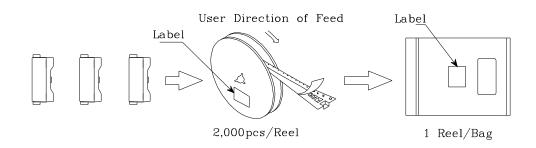
- 1. Wavelength: +/-1nm
- 2. Luminous intensity / luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

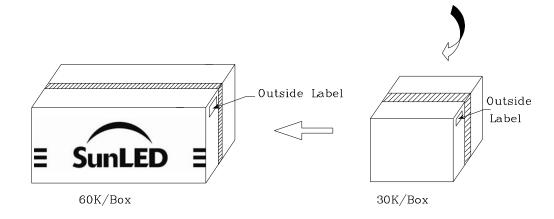
Note: Accuracy may depend on the sorting parameters.

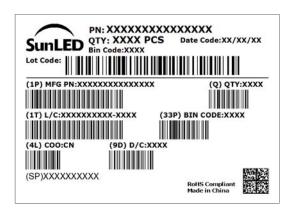
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PACKING & LABEL SPECIFICATIONS







TERMS OF USE

Feb 28,2019

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