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1.6 x 0.2 mm Right Angle SMD Chip LED Lamp

Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 4,000pcs/ Reel
- \bullet MSL (Moisture Sensitivity Level): 3
- •Low current IF=5mA operating
- RoHS compliant



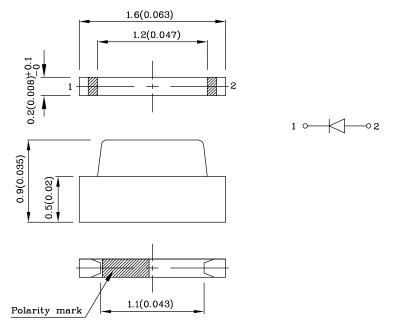




Jan 06, 2017

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Package Schematics



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)	Blue (InGaN)	Unit		
Reverse Voltage	5	V		
Forward Current	20	mA		
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	100	mA	
Power Dissipation	P _D	70	mW	
Electrostatic Discharge Threshold (HBM)	250	V		
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +100	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)

Operating Characteristics (T _A =25°C)	Blue (InGaN)	Unit		
Forward Voltage (Typ.) (I _F =5mA)	V_{F}	2.8	V	
Forward Voltage (Max.) (I _F =5mA)	V_{F}	3.2	V	
Reverse Current (Max.) $(V_R=5V)$	I_{R}	50	uA	
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =5mA)	λР	460*	nm	
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =5mA)	λD	463*	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =5mA)	Δλ	25	nm	

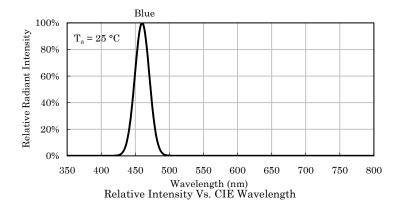
Part Number	Emitting Color	Emitting Material	Lens-color	$\begin{array}{c} Luminous \ Intensity \\ CIE127\text{-}2007* \\ (I_F\text{=}5\text{mA}) \\ mcd \end{array}$		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZCBDF151W5MAV	Blue	InGaN	Water Clear	8*	19*	460*	150°

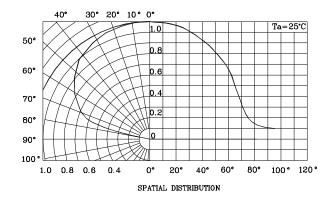
^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

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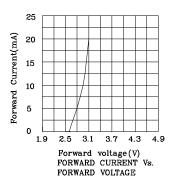


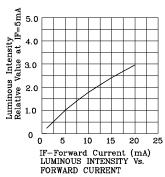


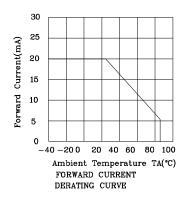


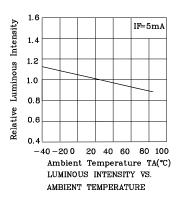


♦ Blue



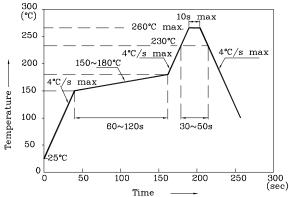






LED is recommended for reflow soldering and soldering profile is shown below.

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

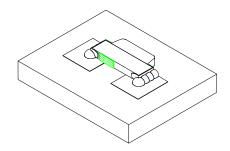


- Maximum soldering temperature should not exceed 260°C
- 2. Recommended reflow temperature: 245°C-260°C
- 3. Do not put stress to the epoxy resin during high temperatures conditions

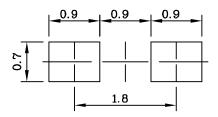




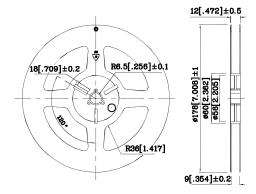
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



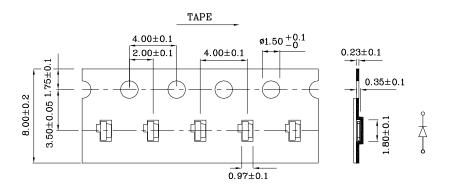
♦ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



❖ 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

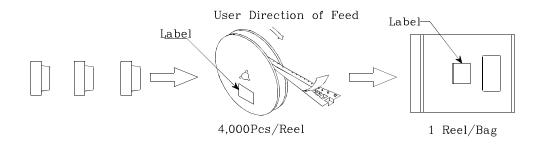
Note: Accuracy may depend on the sorting parameters.

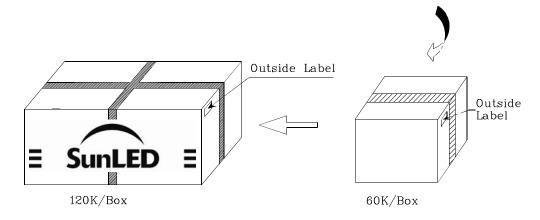
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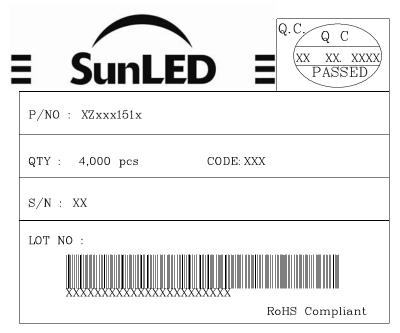


PACKING & LABEL SPECIFICATIONS

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XDSB7888 V3-Z Layout: Maggie L.