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Features

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



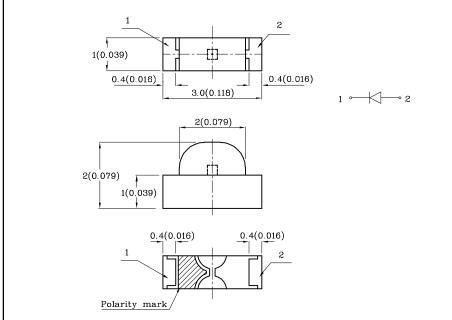




ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC

CLECTROSTATIO DISCHARGE SENSITIVE DEVICES

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)	Blue (InGaN)	Unit		
Reverse Voltage	V_{R}	5	V	
Forward Current	I_{F}	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	150	mA	
Power Dissipation	P_{D}	120	mW °C	
Operating Temperature	$T_{\rm A}$	-40 ~ +85		
Storage Temperature	Tstg	-40 ~ +85		
Electrostatic Discharge Threshold (HBM)	250	V		

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 =20mA)	V_{F}	3.3	V	
Forward Voltage (Max.) (I _F =20mA)	V_{F}	4	V	
Reverse Current (Max.) (V _R =5V)	I_R	50	μА	
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =20mA)	λΡ	460*	nm	
Wavelength of Dominant Emission CIE127-2007*(Typ.) (I _F =20mA)	λD	465*		
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$\triangle \lambda$	25	nm	
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	100	pF	

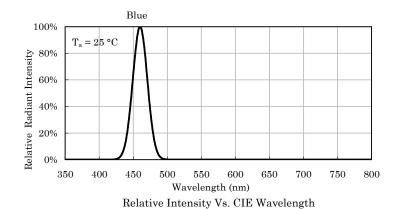
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZCBD56W	Blue	InGaN	Water Clear	40*	79*	460*	120°

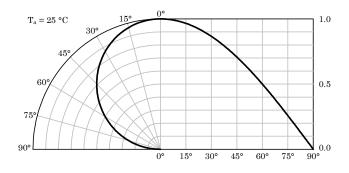
^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

XDSA5536 V7-Z Layout: Maggie L.



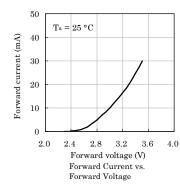


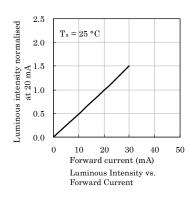


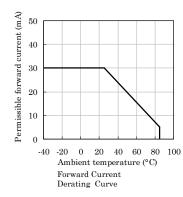


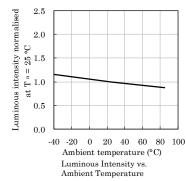
Spatial Distribution

Blue



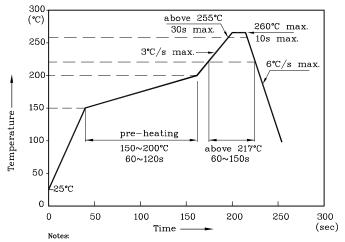






LED is recommended for reflow soldering and soldering profile is shown below.

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.

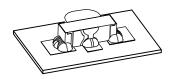
 3. Maximum number of soldering passes: 2

3.0 x 1.0 mm Right Angle SMD Chip LED Lamp

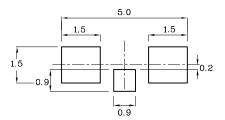




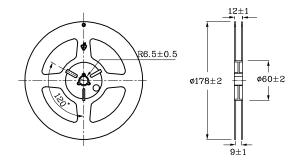
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



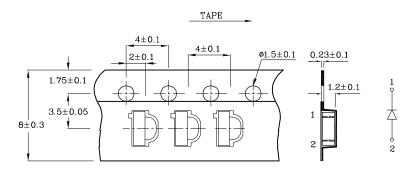
❖ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



❖ Reel Dimension (Units:mm)



❖ 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:

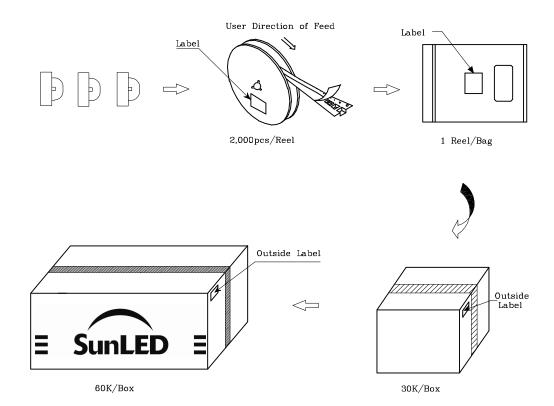
- 1. Wavelength: +/-1nm
- 2. Luminous intensity / luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

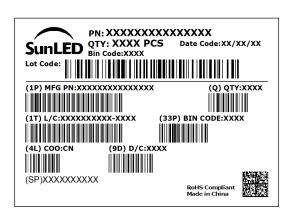
Note: Accuracy may depend on the sorting parameters.



PACKING & LABEL SPECIFICATIONS

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- 6. Additional technical notes are available at https://www.SunLEDusa.com/TechnicalNotes.asp

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