

Part Number: XZDGK50W-2RP

3.0x2.0mm RIGHT ANGLE SMD LED

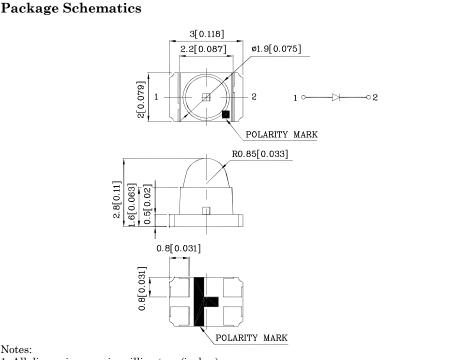
Features

- 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





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



Notes: 1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.2(0.008")$ unless otherwise noted.

3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)	Green (InGaN)	Unit		
Reverse Voltage	verse Voltage V _R		V	
Forward Current	\mathbf{I}_{F}	25	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	150	mA	
Power Dissipation	\mathbf{P}_{D}	102.5	mW	
Electrostatic Discharge Threshold (HBM)	450	V		
Operating Temperature	$T_{\rm A}$	$-40 \sim +85$	°C	
Storage Temperature	Tstg	$-40 \sim +85$	-0	

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)		Green (InGaN)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	$V_{\rm F}$	3.3	V	
Forward Voltage (Max.) (I _F =20mA)	$V_{\rm F}$	4.1	V	
Reverse Current (Max.) (V _R =5V)	I_R	50	uA	
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =20mA)	λP	515*	nm	
Wavelength of Dominant EmissionCIE127-2007*(Typ.) (I _F =20mA)	λD	525*	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$ riangle \lambda$	35	nm	
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	45	pF	

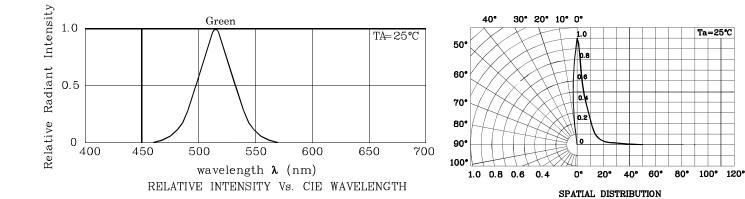
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZDGK50W-2RP	Green	InGaN	Water Clear	1000*	1395*	515*	10°

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

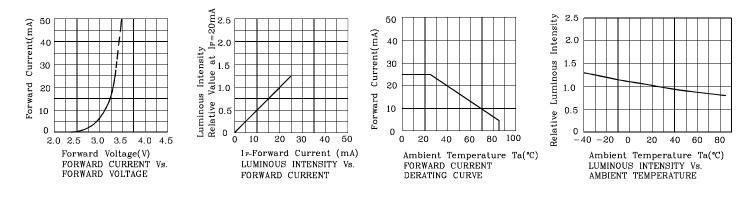
Apr 05,2017

XDSB8941 V1-Z Layout: Maggie L.

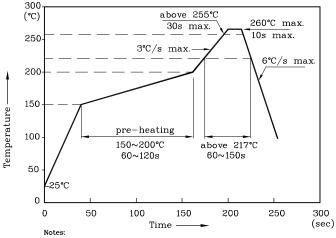




Green



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



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

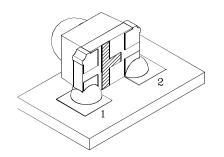
measured on the package body surface facing up during reflow. Do not apply any stress to the LED during high temperature conditions. 2.

^{1.} All temperatures refer to the center of the package,

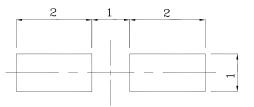
^{3.} Maximum number of soldering passes: 2



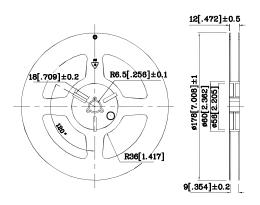
✤ The device has a single mounting surface. The device must be mounted according to the specifications.



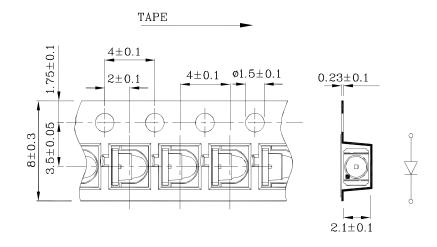
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



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%

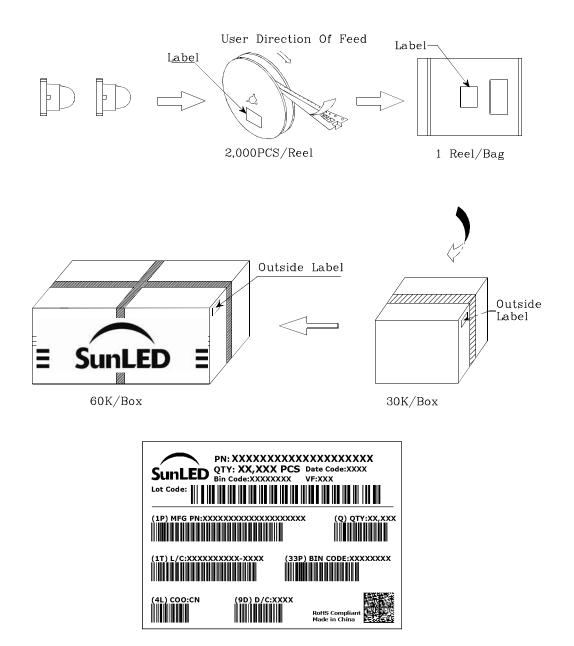
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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PACKING & LABEL SPECIFICATIONS



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- 2. Contents within this document are subject to improvement and enhancement changes without notice.
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