

 $0.65 \times 0.35 \times 0.2$ mm 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): 2
- RoHS compliant

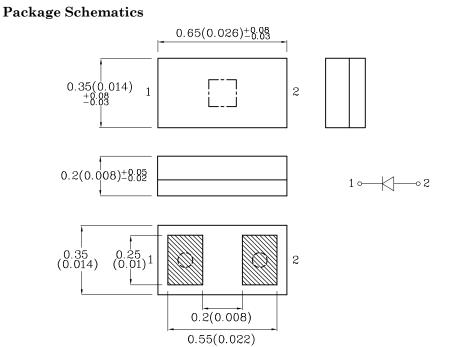






ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



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)	Green (InGaN)	Unit			
Reverse Voltage	V_{R}	5	V		
Forward Current	I_{F}	10	mA		
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	50	mA		
Power Dissipation	PD	34	mW		
Electrostatic Discharge Threshold (HBM)	450	V			
Operating Temperature	T_{A}	-40 ~ +85	°C		
Storage Temperature	Tstg	-40 ~ +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)

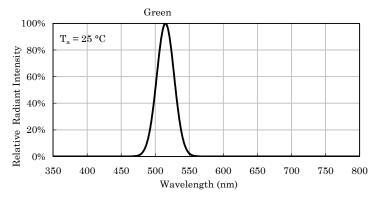
Operating Characteristics (T _A =25°C)	Green (InGaN)	Unit		
Forward Voltage (Typ.) (I _F =5mA)	$V_{ m F}$	2.85	V	
Forward Voltage (Max.) (I _F =5mA)	V_{F}	3.3	V	
Reverse Current (Max.) $(V_R=5V)$	I_{R}	50	μА	
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =5mA)	λΡ	515*	nm	
Wavelength of Dominant Emission CIE127-2007* (Typ.) $(I_F=5\text{mA})$	λD	525*	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =5mA)	$\triangle \lambda$	30	nm	

Part Number	Emitting Color	Emitting Material	Lens-color	$\begin{array}{c} { m CIE}127 \\ { m (I_F=5)} \end{array}$	intensity 7-2007* 5mA) cd	Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZDG155W5MAV	Green	InGaN	Water Clear	180*	278*	515*	140°

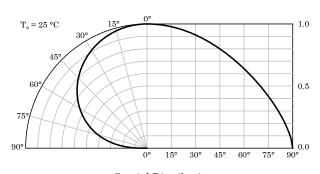
^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.



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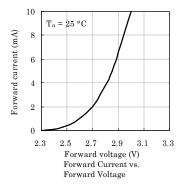


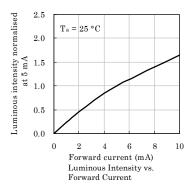
Relative Intensity Vs. CIE Wavelength

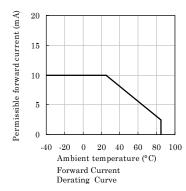


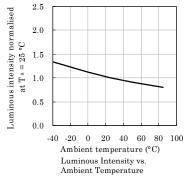
Spatial Distribution

❖ Green



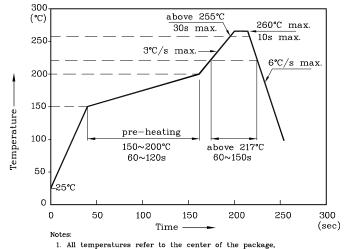






LED is recommended for reflow soldering and soldering profile is shown below.

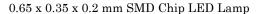
Reflow Soldering Profile for SMD Products (Pb-Free Components)



- measured on the package body surface facing up during reflow.

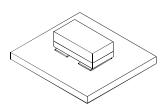
 2. Do not apply any stress to the LED during high temperature conditions.

 3. Maximum number of soldering passes: 2



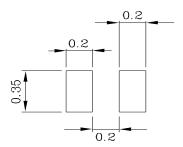


❖ The device has a single mounting surface. The device must be mounted according to the specifications.

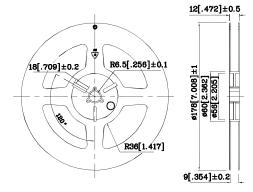


❖ Reel Dimension

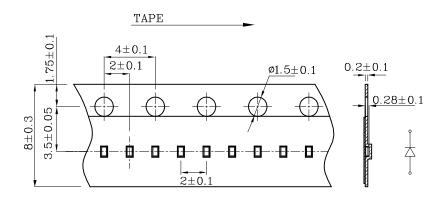
♦ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Mask open area ratio:80% Mask thickness:80~100um



❖ 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

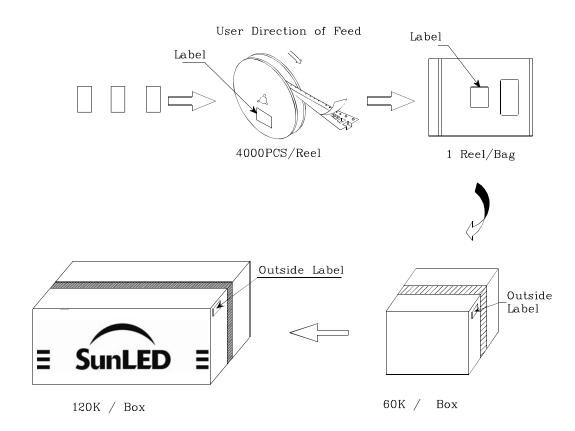
Note: Accuracy may depend on the sorting parameters.

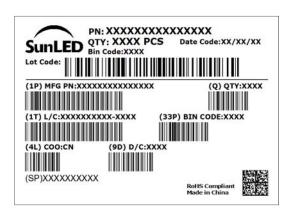
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PACKING & LABEL SPECIFICATIONS





TERMS OF USE

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- 2. Contents within this document are subject to improvement and enhancement changes without notice.
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- 6. Additional technical notes are available at https://www.SunLEDusa.com/TechnicalNotes.asp

Dec 27,2018