

3.5x2.8mm PLCC2 SMD LED

Features

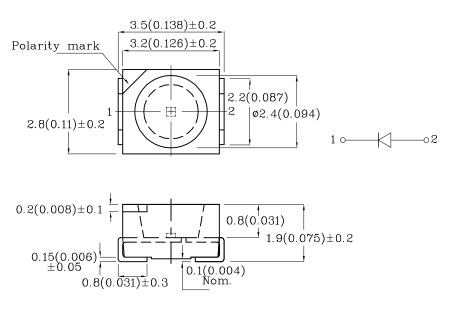
- \bullet Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2000pcs/ Reel
- \bullet MSL (Moisture Sensitivity Level): 3
- \bullet RoHS compliant





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Package Schematics



Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.25(0.01")$ 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}	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	150	mA	
Power Dissipation	PD	123	mW	
Operating Temperature	$T_{\rm A}$	$-40 \sim +85$	°C	
Storage Temperature	Tstg	$-40 \sim +85$		
Electrostatic Discharge Threshold (HBM)		450	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)		Green (InGaN)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	$V_{\rm F}$	3.3	V	
Forward Voltage (Max.) (I _F =20mA)	V_{F}	4.1	V	
Reverse Current (Max.) (V _R =5V)	I_R	50	μΑ	
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =20mA)	λP	515*	nm	
Wavelength of Dominant Emission CIE127-2007*(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	$_{\rm pF}$	

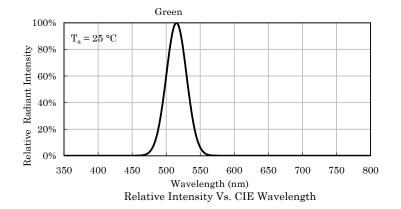
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZDGK45WT	Green	InGaN	Water Clear	500*	995*	515*	120°

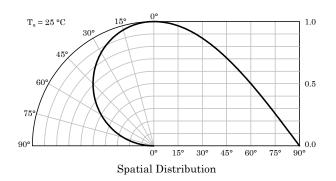
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

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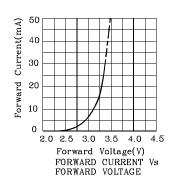
XDSB8257 V4-Z Layout: Maggie L.

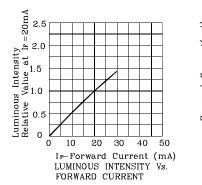


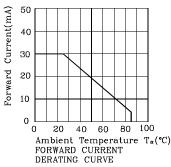


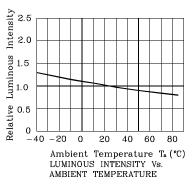


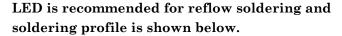
Green

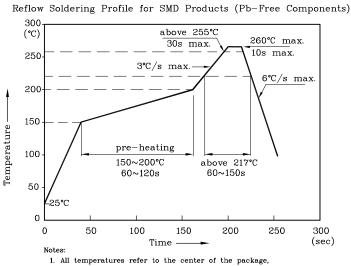










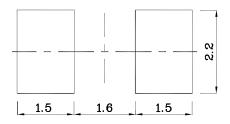


measured on the package body surface facing up during reflow. 2. Do not apply any stress to the LED during high temperature conditions. 3. Maximum number of soldering passes: 2

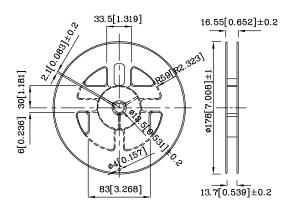


✤ The device has a single mounting surface. The device must be mounted according to the specifications.

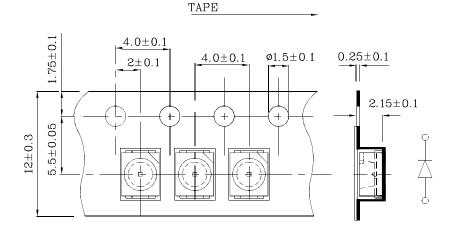
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



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%

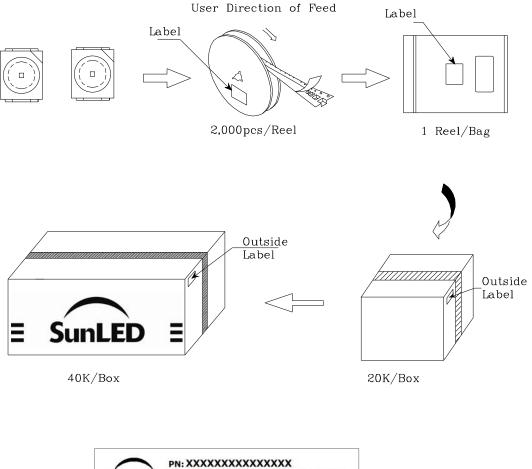
3. Forward Voltage: +/-0.1V $\,$

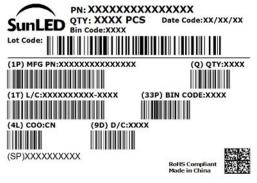
Note: Accuracy may depend on the sorting parameters.

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PACKING & LABEL SPECIFICATIONS





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