

Part Number: XZCBDXMYK161W

2.5 x 0.7 mm Right Angle SMD Chip LED Lamp

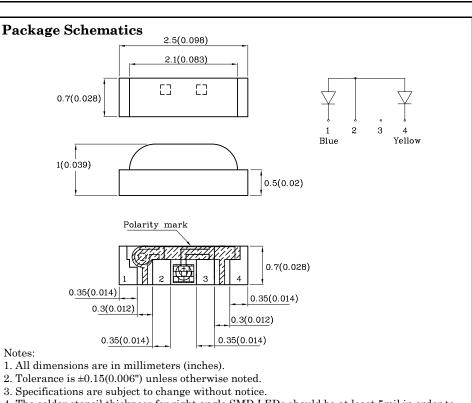
Features

- \bullet 2.5 x 0.7 x 1.0 mm right angle SMD LED
- Ideal for indication on hand held products
- Low current operation
- Standard Package: 3,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- Halogen-free
- RoHS compliant





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



4. The solder stencil thickness for right angle SMD LEDs should be at least 5mil in order to prevent poor solder wetting.

Absolute Maximum Ratings (T _A =25°C)		Blue (InGaN)	Yellow (AlGaI nP)	Unit
Reverse Voltage	V_{R}	5	5	V
Forward Current		30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	150	175	mA
Power Dissipation	PD	120	75	mW
Electrostatic Discharge Threshold (HBM)		250	3000	V
Operating Temperature	$T_{\rm A}$	-40 ~ +85		°C
Storage Temperature	Tstg			U

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)	(AlGaI nP)	Unit
Forward Voltage (Typ.) (I _F =20mA)			3.3	2.0	v
Forward Voltage (Max.) (I _F =20mA)			4.0	2.5	v
Reverse Current (Max.) (V_R =5V)			50	10	μΑ
0	Vavelength of Peak Emission CIE127-2007* (Typ.) I _F =20mA)			590*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)			465*	590*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)		$ riangle\lambda$	25	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz))	С	100	20	pF
Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* An nm 2θ λP		gle

				mcd		λP	20 1/2
				min.	typ.		
XZCBDXMYK161W —	Blue	InGaN	– Water Clear	40*	64*	460*	130°
	Yellow	AlGaInP	- water Glear	80*	128*	590*	

Emitting

Material

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

Emitting

Color

Apr 24,2023

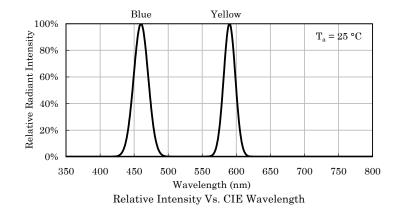
Part

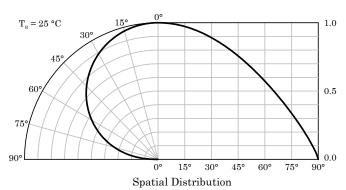
Number

XDSB9585 V1-Z Layout: Maggie L.

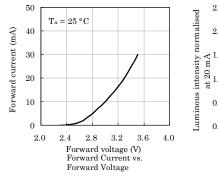
Yellow

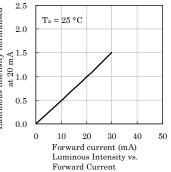


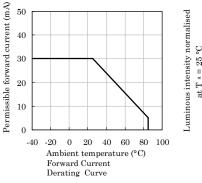


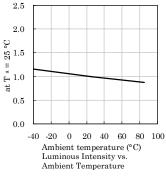


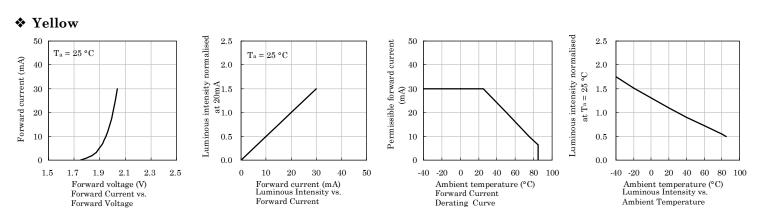
✤ Blue









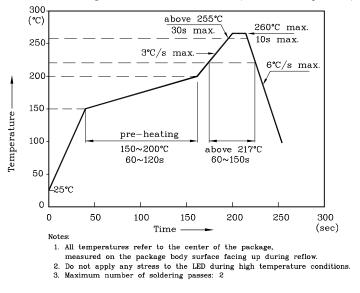


XDSB9585 V1-Z Layout: Maggie L

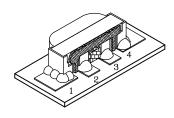


***** LED is recommended for reflow soldering and soldering profile is shown below.

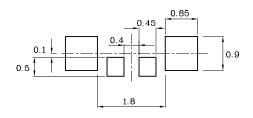
Reflow Soldering Profile for SMD Products (Pb-Free Components)



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

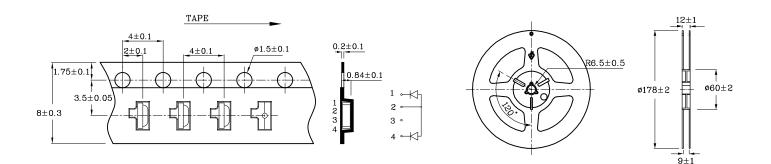


Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



Tape Specification (Units : mm)

Reel Dimension (Units : mm)



Remarks:

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength),

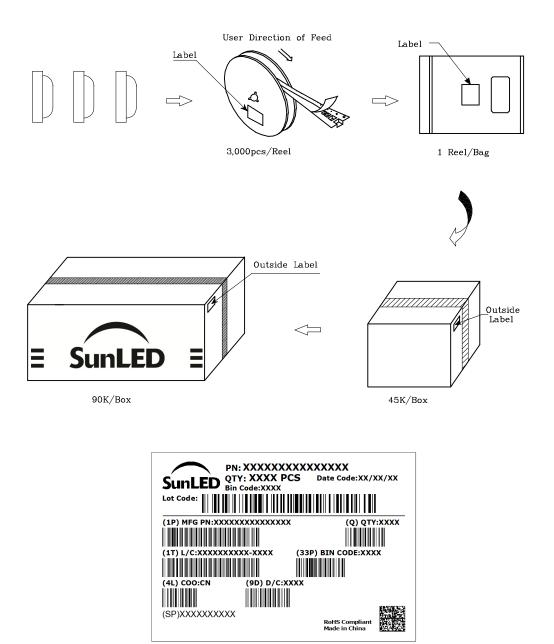
the typical accuracy of the sorting process is as follows:

- 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



TERMS OF USE

- 1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
- 2. Contents within this document are subject to improvement and enhancement changes without notice.
- 3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet. User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
- 4. The product(s) described in this document are intended for electronic applications in which a person's life is not reliant upon the LED. Please
- consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
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- $7. \ Additional \ technical \ notes \ are \ available \ at \ \underline{https://www.SunLEDusa.com/TechnicalNotes.asp}$