Excellent Integrated System Limited

Stocking Distributor

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SunLED XZCBD78W

For any questions, you can email us directly: sales@integrated-circuit.com

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Distributor of SunLED: Excellent Integrated System Limited

Datasheet of XZCBD78W - LED BLUE CLEAR 1209 SMD

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Part Number: XZCBD78W

3.2x2.4mm SMD CHIP LED LAMP

Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 1,500pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- RoHS compliant



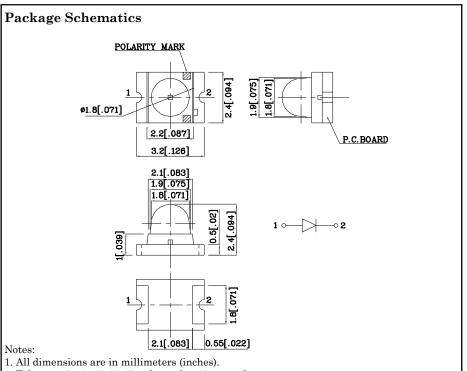




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ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



- 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)		CBD (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	
Operating Temperature	T_{A}	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85	-0	
Electrostatic Discharge Threshold (HBM)	l	250	V	

Operating Characteristics (T_A =25°C)		CBD (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	uA
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =20mA)	λΡ	460*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) $(I_F=20\text{mA})$	λD	465*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$\triangle \lambda$	25	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	100	рF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous CIE127 (I _F =20 mo	0mA)	Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZCBD78W	Blue	InGaN	Water Clear	400*	795*	460*	20°

 $[\]hbox{*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.}$



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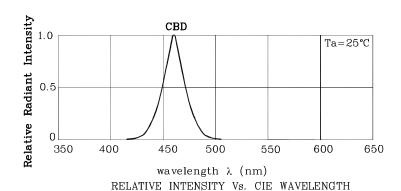
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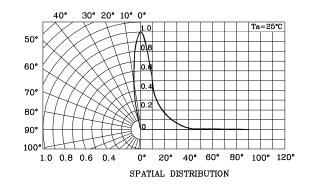


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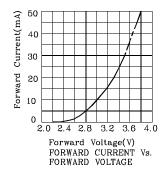
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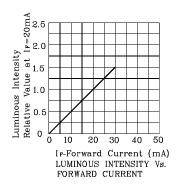


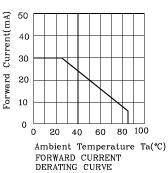


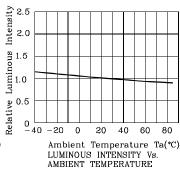


♦ CBD



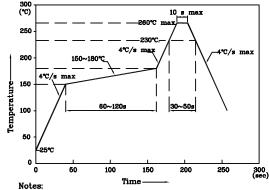






LED is recommended for reflow soldering and soldering profile is shown below.

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



- 1. Maximum soldering temperature should not exceed 260°C $\,$
- Recommended reflow temperature: 145°C-260°C
 Do not put stress to the epoxy resin during

 Do not put stress to the epoxy resin durin high temperatures conditions

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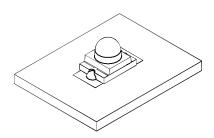
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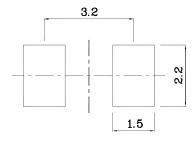
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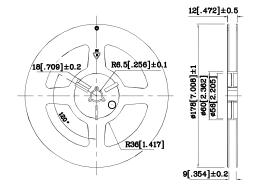
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



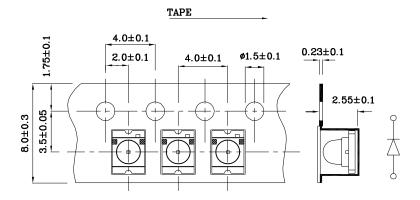
❖ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



❖ 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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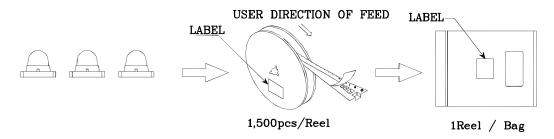
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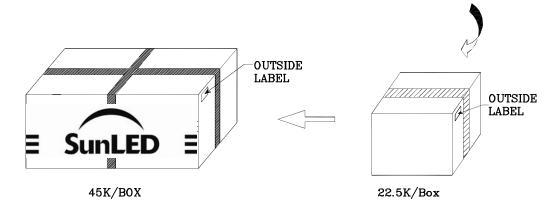


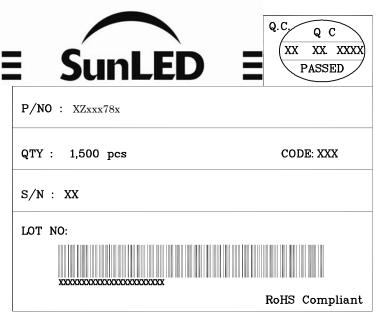
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PACKING & LABEL SPECIFICATIONS







TERMS OF USE

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- 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.
- 5. The contents within this document may not be altered without prior consent by SunLED.
- 6. Additional technical notes are available at http://www.SunLEDusa.com/TechnicalNotes.asp

XDSA6024 V4-Z Layout: Maggie L.