Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

SunLED XZCBD55W-A2

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

Distributor of SunLED: Excellent Integrated System Limited

Datasheet of XZCBD55W-A2 - LED BLUE CLEAR 1206 SMD

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



Part Number: XZCBD55W-A2

3.2x1.6mm SMD CHIP LED LAMP

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



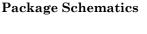


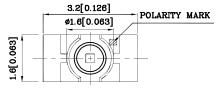


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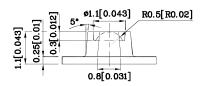
ATTENTION

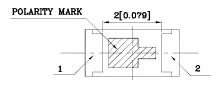
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES











- 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)	CBD (InGaN)	Unit		
Reverse Voltage	Reverse Voltage V _R		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	erating Temperature T _A		°C	
Storage Temperature	Tstg	-40 ~ +85	30	
Electrostatic Discharge Threshold (HBM)	250	V		

Operating Characteristics $(T_A=25^{\circ}C)$	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.) $(I_F=20\text{mA})$	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	CIE127	Intensity 7-2007* 0mA) cd	wavelength CIE127-2007* nm λP	Viewing Angle 2θ 1/2
				min.	typ.		
XZCBD55W-A2	Blue	InGaN	Water Clear	80*	248*	460*	70°

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



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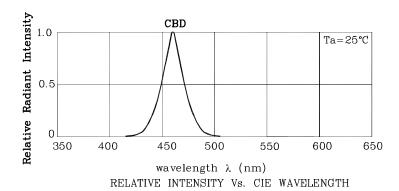
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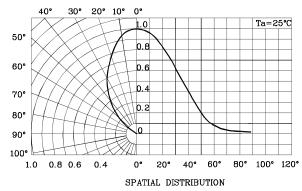


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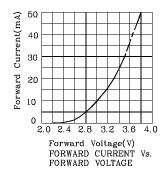
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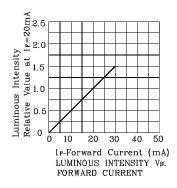


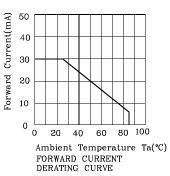


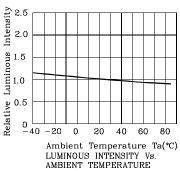


♦ CBD



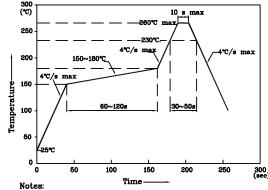






LED is recommended for reflow soldering and soldering profile is shown below.

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 during high temperatures conditions

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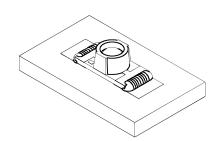
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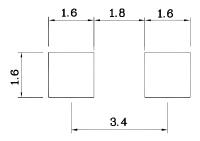


Part Number: XZCBD55W-A2 3.2x1.6mm SMD CHIP LED LAMP

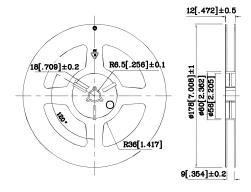
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



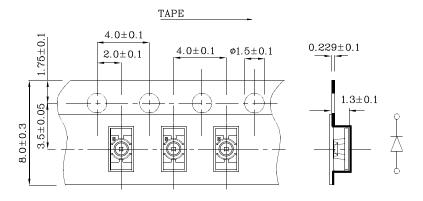
❖ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



❖ 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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XDSB4483 V3-Z Layout: Maggie L.



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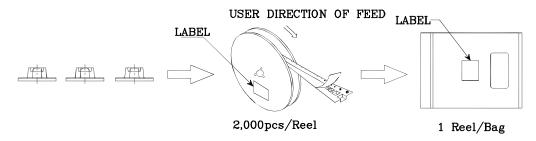
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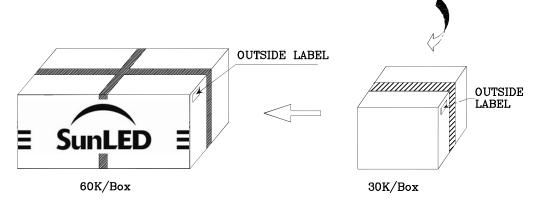


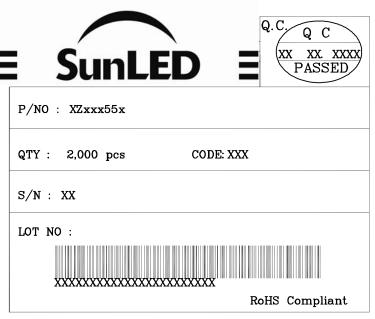
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3.2x1.6mm SMD CHIP LED LAMP

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

Feb 17,2014 XDSB4483 V3-Z Layout: Maggie L.