

Part Number: XZCMEDGCBD110W

1.6 x 1.6 mm Ultra Low Current Series

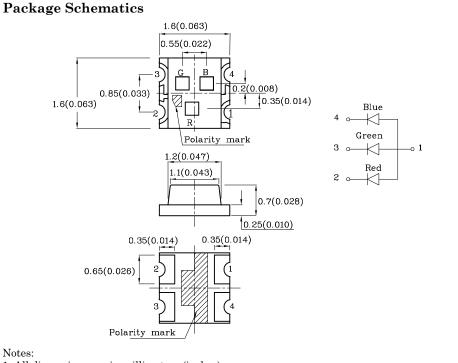
Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- \bullet Halogen-free
- \bullet RoHS compliant





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.2(0.008")$ unless otherwise noted. 3. Specifications are subject to change without notice

3.	Specifications	are su	bject to c	ehange v	without 1	notice.

Absolute Maximum Rating (T _A =25°C)	gs	Red (AlGaI nP)	Green (InGa N)	Blue (InGa N)	Unit
Reverse Voltage	V_{R}	5	5	5	V
Forward Current	\mathbf{I}_{F}	30	25	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{\rm FS}$	195	150	150	mA
Power Dissipation	\mathbf{P}_{D}	75	102.5	120	mW
Electrostatic Discharge Thre (HBM)	shold	3000	450	250	v
Operating Temperature	TA	-40 ~ +85			°C
Storage Temperature	Tstg	-40 ~ +85 °C			

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)

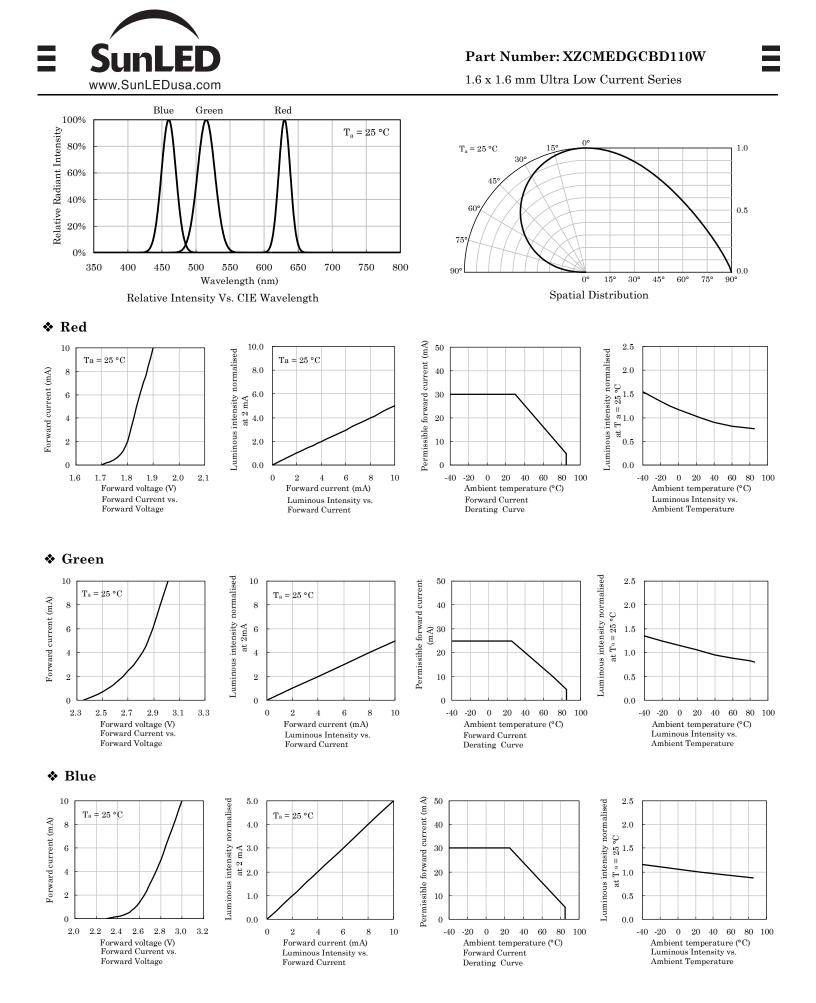
Operating Characteristics (T _A =25°C)		Red (AlGaI nP)	Green (InGa N)	Blue (InGa N)	Unit
Forward Voltage (Typ.) (I _F =2mA)	$V_{\rm F}$	1.8	2.65	2.65	V
Forward Voltage (Max.) (I _F =2mA)	$V_{\rm F}$	2.1	3.1	3.1	V
Reverse Current (Max.) (V _R =5V)	I_{R}	10	50	50	μΑ
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =2mA)	λP	630*	515*	460*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =2mA)	λD	621*	525*	465*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =2mA)	$ riangle \lambda$	20	35	25	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	25	45	100	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =2mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
	Red	AlGaInP		6*	14*	630*	
XZCMEDGCBD110W	Green	InGaN	Water Clear	30*	79*	515*	130°
	Blue	InGaN		6*	13*	460*	

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

May 05,2023

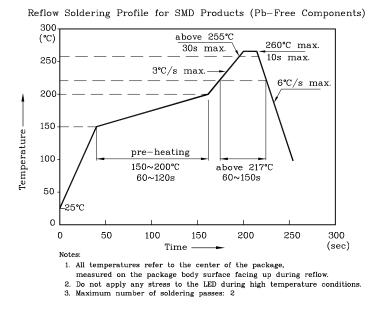
XDSB9205 V4-Z Layout: Maggie L.



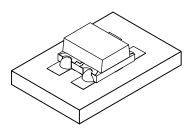


1.6 x 1.6 mm Ultra Low Current Series

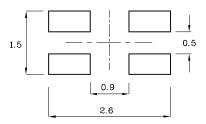
LED is recommended for reflow soldering and soldering profile is shown below.



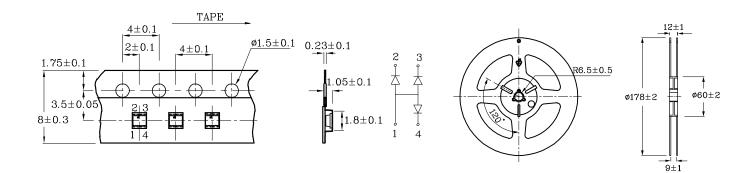
✤ The device has a single mounting surface. The device must be mounted according to the specifications.



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



Reel Dimension (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%

Tape Specification (Units : mm)

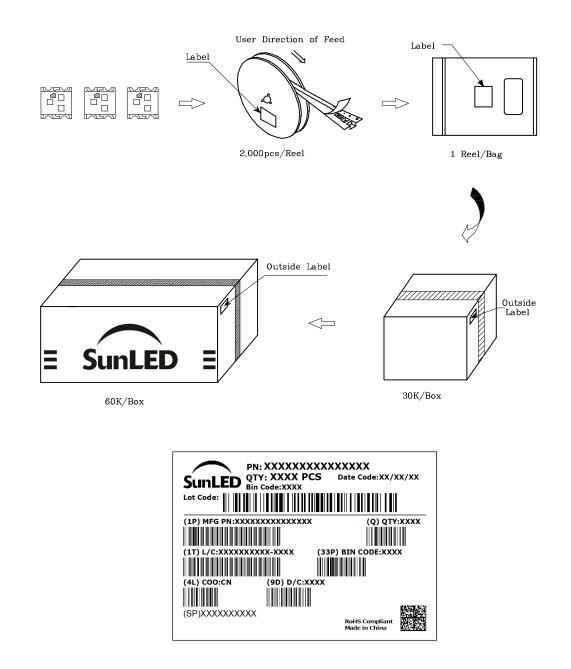
3. Forward Voltage: +/-0.1V $\,$

Note: Accuracy may depend on the sorting parameters.



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PACKING & LABEL SPECIFICATIONS



TERMS OF USE

- 1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
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- 3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet.
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