

Part Number: XZCMEDGCBD110W

1.6 x 1.6mm Ultra Low Current Series

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

			L		
Absolute Maximum Ratings (T _A =25°C)		Red (AlGaI nP)	Green (InGa N)	Blue (InGa N)	Unit
Reverse Voltage	V_{R}	5	5	5	V
Forward Current	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 Threshold (HBM)		3000	450	250	v
Operating Temperature	TA		°C		
Storage Temperature	Tstg	-40 ~ +85 °(

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 (AlGaIn P)	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	μА
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	20*	49*	515*	130°
	Blue	InGaN		6*	13*	460*	

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

Dec 05,2020

XDSB9205 V3-Z Layout: Maggie L.





1.6 x 1.6mm 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.

Dec 05,2020



1.6 x 1.6mm Ultra Low Current Series

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 https://www.SunLEDusa.com/TechnicalNotes.asp