

Part Number: XZMDKVG55W-7

3.2mm x 1.6mm BI-POLAR SURFACE MOUNT LED LAMP

Features

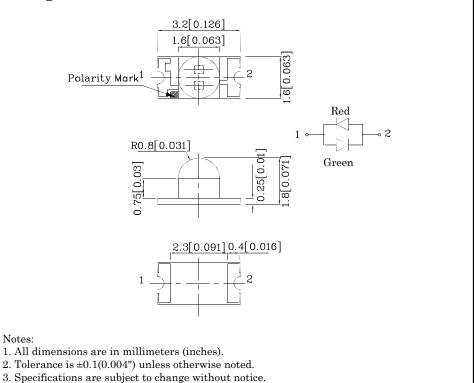
- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- RoHS compliant





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES





Red **Absolute Maximum Ratings** Green Unit (T_A=25°C) (AlGaInP) (AlGaInP) Forward Current \mathbf{I}_{F} 30 30 mА Forward Current (Peak) 1/10 Duty Cycle 185150mА ifs 0.1ms Pulse Width mW \mathbf{P}_{D} 7575Power Dissipation T_A **Operating Temperature** $-40 \sim +85$ °C Tstg Storage Temperature $-40 \sim +85$

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 (AlGaInP)	Green (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	$V_{\rm F}$	1.95	2.1	v
Forward Voltage (Max.) (I _F =20mA)	$V_{\rm F}$	2.5	2.5	v
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	λP	645*	574*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	630*	570*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$ riangle \lambda$	28	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	35	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λΡ	Viewing Angle 20 1/2
				min.	typ.		
XZMDKVG55W-7 —	Red	AlGaInP	Water Clear –	700 300*	$1495 \\ 597*$	645*	30°
	Green	AlGaInP		120 120*	248 248*	574*	

 $\label{eq:loss} \hbox{``Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.}$

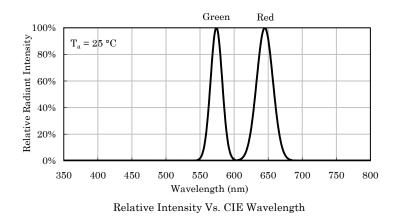
Oct 24,2018

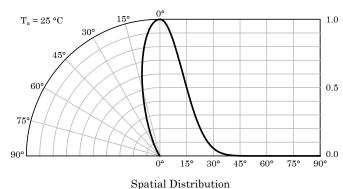
XDSA3183 V10-X Layout: Maggie L.



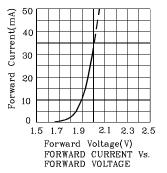
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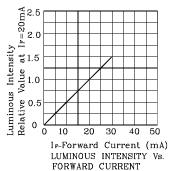
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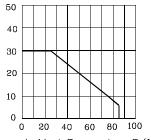




✤ Red

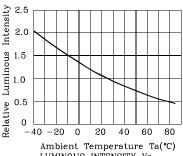






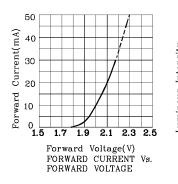
Forward Current(mA)

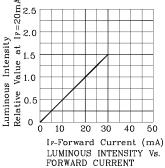


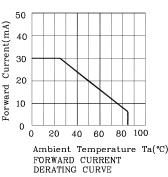


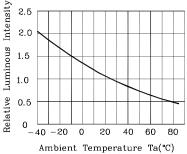


Green









LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

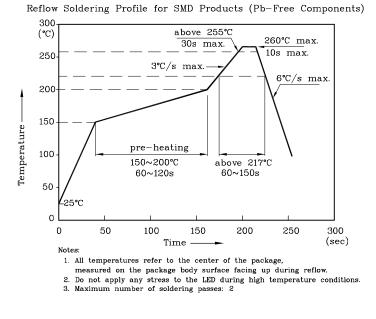
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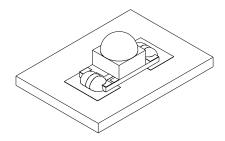
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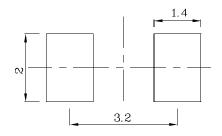
LED is recommended for reflow soldering and soldering profile is shown below.



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

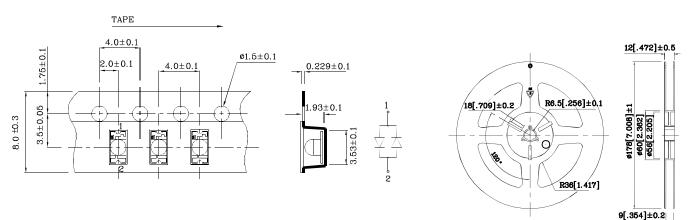


Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



Reel Dimension

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

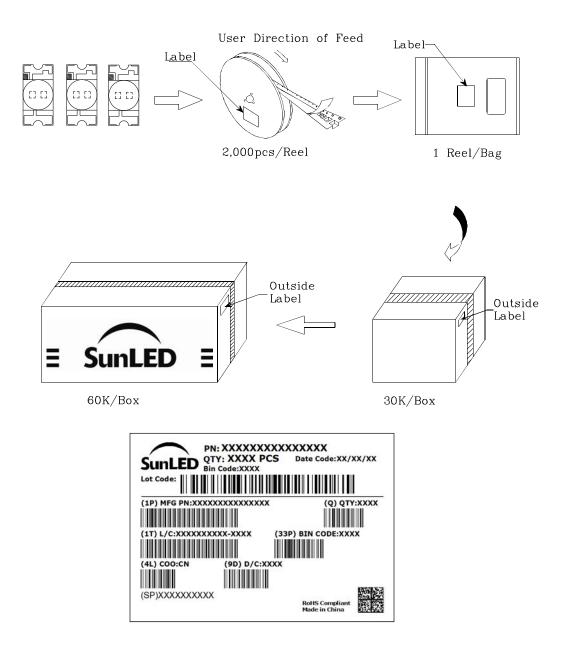
2. Luminous intensity / luminous flux: +/-15%

3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



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.
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Oct 24,2018