

Part Number: XZVG53W-3

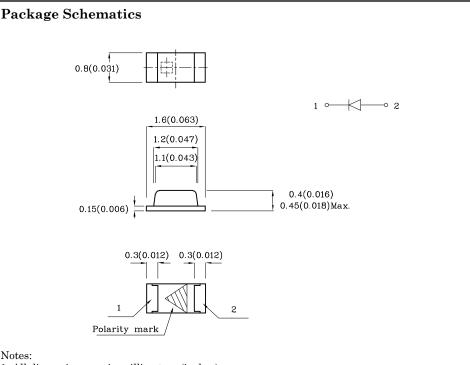
1.6x0.8mm SMD CHIP LED LAMP

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





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.

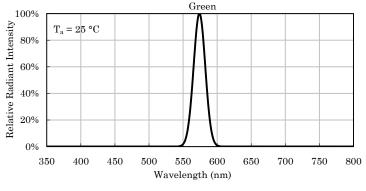
3. Specifications are subject to change without notice.

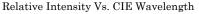
Absolute Maximum Ratings (T _A =25°C)		Green (AlGaInP)	Unit	Operating Characteristics (T _A =25°C)			Green (AlGaInP)	Unit
Reverse Voltage	V_{R}	5 V		Forward Voltage (Typ).)	$V_{\rm F}$	2.1	v
Forward Current	$I_{\rm F}$	30	mA	(I _F =20mA) Forward Voltage (Max.)				
Forward Current (Peak) 1/10 Duty Cycle	i _{FS}	150	mA	(I _F =20mA)	ge (max.)		2.5	V
0.1ms Pulse Width	IFS	100	1112.4	Reverse Current (Max.) (V _R =5V)		I_{R}	10	uA
Power Dissipation	\mathbf{P}_{D}	75	mW	Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)			574*	nm
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C			λP		
Storage Temperature	Tstg	$-40 \sim +85$	Ũ	Wavelength of Dominant			_	
A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly				Emission CIE127-2007* (Typ.) (I _F =20mA)		λD	570*	nm
process (Reference JEDEC/JESD	Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)		$ riangle\lambda$	20	nm			
				Capacitance (Typ.) (V _F =0V, f=1MHz)		С	15	pF
Part Number		nitting Color	Emitting Material	Lens-color	Luminous Inte CIE127-200 (I _F =20mA mcd)7*	Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2

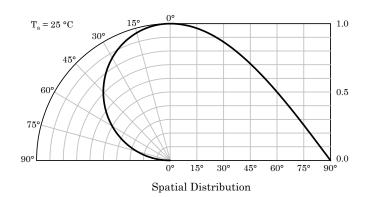
				min.	typ.		
XZVG53W-3	Green	AlGaInP	Water Clear	20*	49*	574*	120°

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

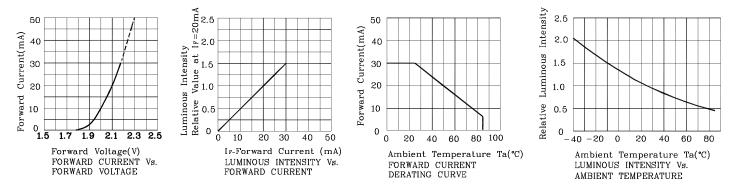




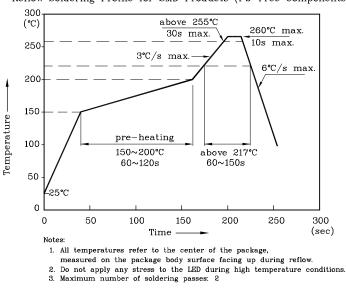








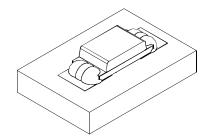
LED is recommended for reflow soldering and soldering profile is shown below.



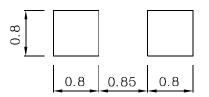
Reflow Soldering Profile for SMD Products (Pb-Free Components)



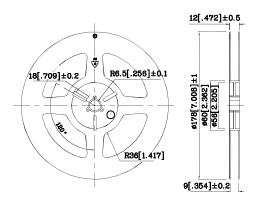
✤ The device has a single mounting surface. The device must be mounted according to the specifications.



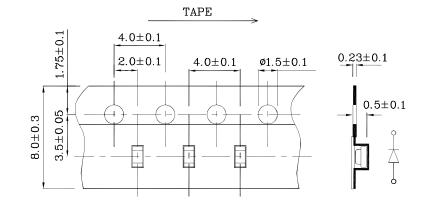
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



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

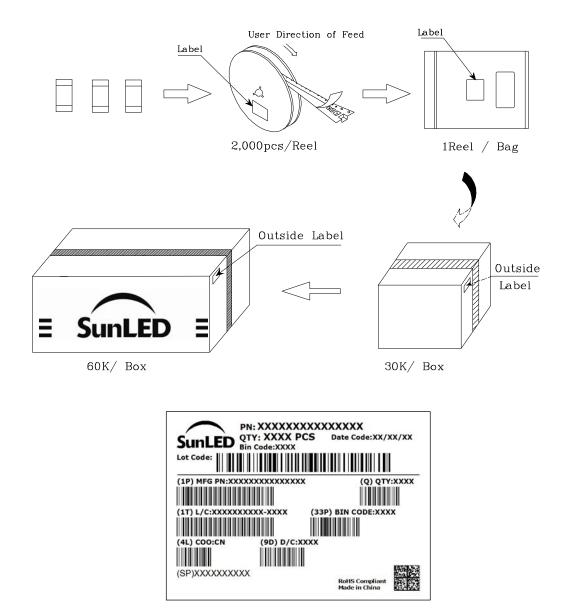
2. Luminous intensity / luminous flux: +/-15%

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. 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
- 4. The product(s) described in this document are intended for electronic applications in which a person's life is not remain upon the LED. The consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
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- 6. Additional technical notes are available at https://www.SunLEDusa.com/TechnicalNotes.asp

Oct 26,2018

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