

Part Number: XZVG53W-3

1.6 x 0.8 mm SMD Chip LED Lamp

Features

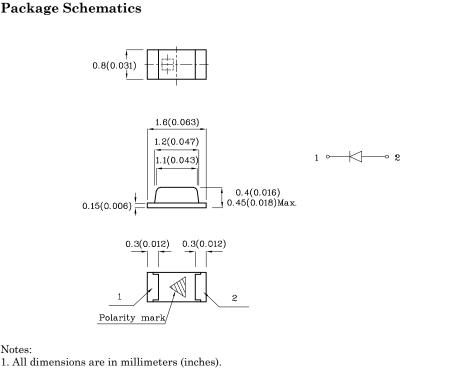
- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- Halogen-free
- RoHS compliant





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Notes:



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	
Reverse Voltage	V_{R}	5	v	
Forward Current	$I_{\rm F}$	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	150	mA	
Power Dissipation	\mathbf{P}_{D}	75	mW	
Operating Temperature	TA	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85	U	

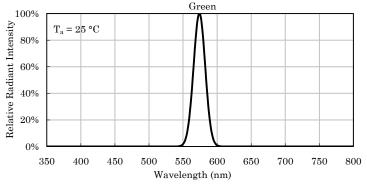
A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

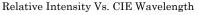
Operating Characteristics (T _A =25°C)		Green (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	2.1	V	
Forward Voltage (Max.) (I _F =20mA)	V_{F}	2.5	V	
Reverse Current (Max.) (V _R =5V)	I_R	10	μΑ	
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	λP	574*	nm	
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	570*	nm	
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	

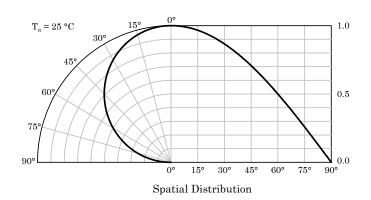
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous CIE127 (I _F =20 m	7-2007* 0mA)	Wavelength CIE127-2007* nm λΡ	Viewing Angle 20 1/2
				min.	typ.		
XZVG53W-3	Green	AlGaInP	Water Clear	20*	49*	574*	120°

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

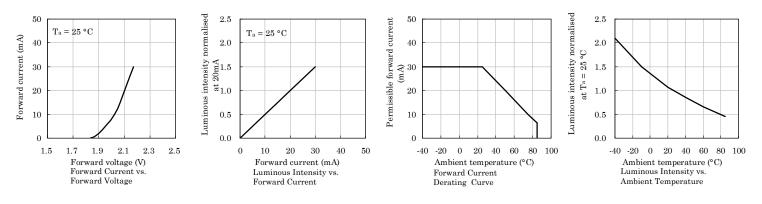




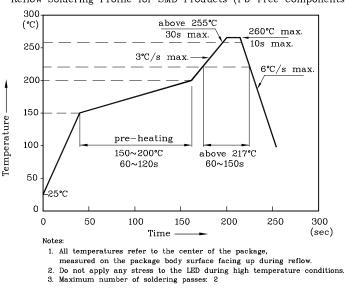




✤ Green



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

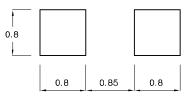


Reflow Soldering Profile for SMD Products (Pb-Free Components)

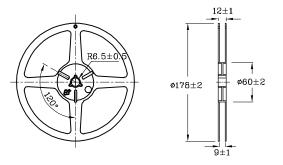


✤ The device has a single mounting surface. The device must be mounted according to the specifications.

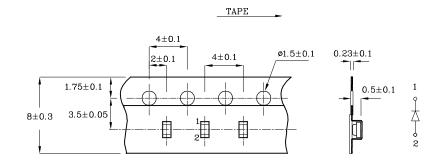
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



Reel Dimension (Units : mm)



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

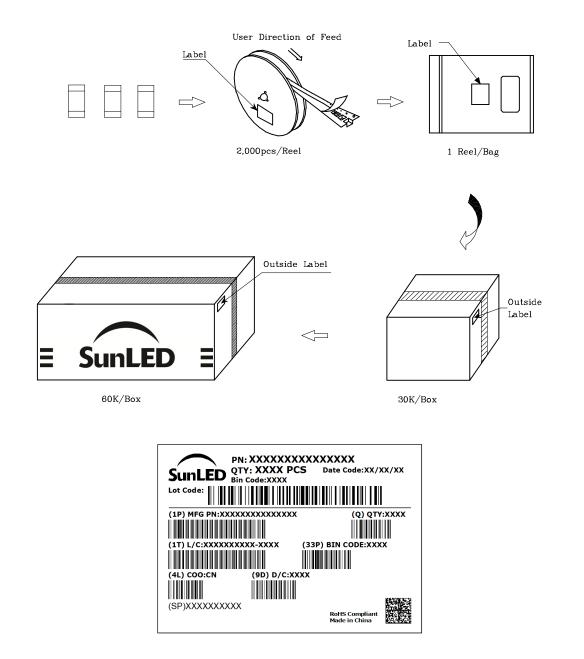
2. Luminous intensity / luminous flux: +/-15%

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 consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
- 5. The performance of the product(s) should be evaluated and verified by the customer to ensure it can meet the customer's application requirements.
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