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3.2x1.6mm SMD CHIP LED LAMP

Features

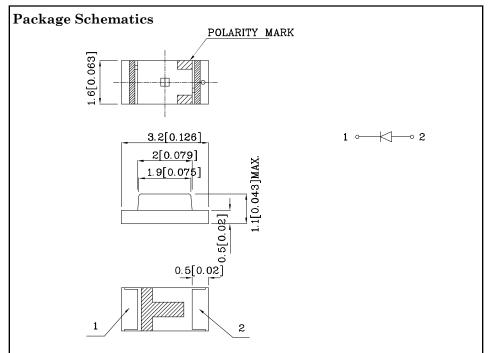
- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- \bullet MSL (Moisture Sensitivity Level): 3
- RoHS compliant







ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



Notes

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2(0.0079")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)		Red (AlGaInP)	Unit	
Reverse Voltage	V_{R}	5	V	
Forward Current	I_{F}	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	150	mA	
Power Dissipation	P_{D}	75	mW	
Operating Temperature	$T_{\rm A}$	-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 (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	uA	
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =20mA)	λP	660*	nm	
Wavelength of Dominant Emission CIE127-2007*(Typ.) (I _F =20mA)	λD	640*	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	20	nm	
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	45	pF	

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd	Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min. typ.		

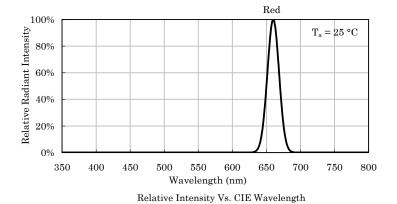
				min.	typ.		
XZM2MR55W	Red	AlGaInP	Water Clear	400 120*	597 198*	660*	160°

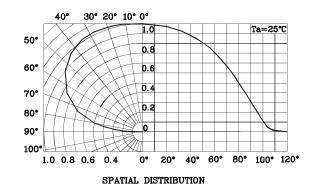
 $[\]hbox{*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.}$

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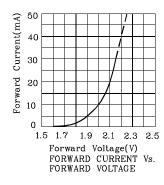


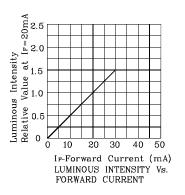


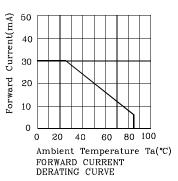


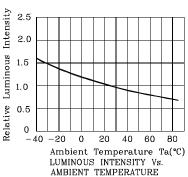


❖ Red



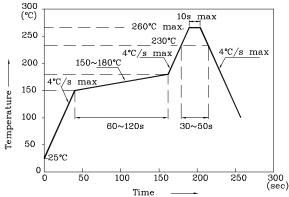






LED is recommended for reflow soldering and soldering profile is shown below.

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



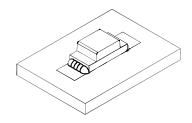
Notes:

- 1. Maximum soldering temperature should not exceed 260°C $\,$
- 2. Recommended reflow temperature: 245°C-260°C
- 3. Do not put stress to the epoxy resin during high temperatures conditions

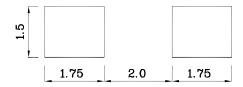




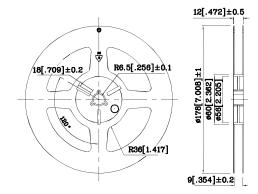
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



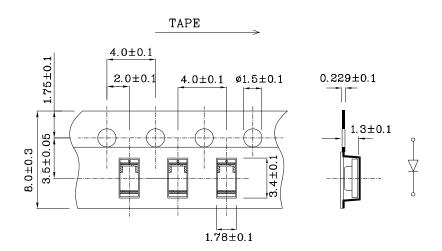
❖ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



* 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:

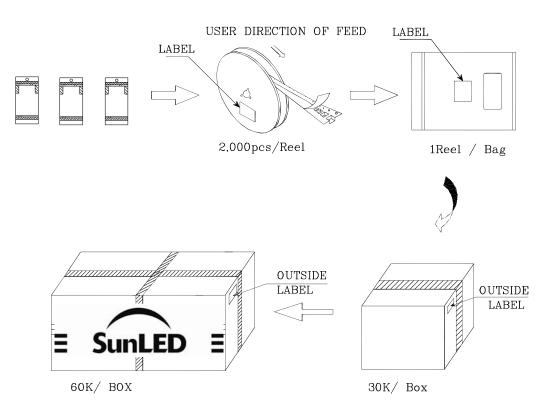
- 1. Wavelength: +/-1nm
- 2. Luminous intensity / luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

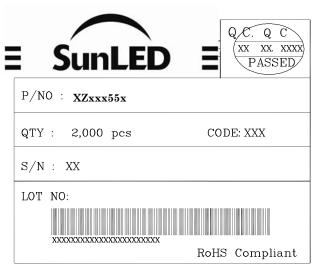
Note: Accuracy may depend on the sorting parameters.





PACKING & LABEL SPECIFICATIONS





TERMS OF USE

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- $6. \ Additional \ technical \ notes \ are \ available \ at \ \underline{http://www.SunLEDusa.com/TechnicalNotes.asp}$

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