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 $1.6 \times 0.8 \times 0.25$ mm (0603) SMD Chip LED Lamp

Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 4,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- Halogen-free
- RoHS compliant







ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

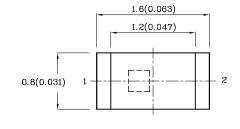
Applications

- 1. Mobile phone Keypad indicator and backlight
- 2.Flat backlight for LCD, switch and symbol
- 3.Toys

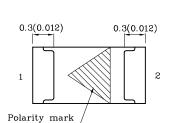
Package Schematics

0.25(0.01)

±0.03







Notes:

- 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		
Reverse Voltage	V_{R}	5	V	
Forward Current	I_{F}	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	I_{FP}	150	mA	
Power Dissipation	P_{D}	78	mW	
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°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)

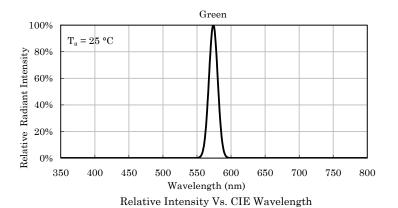
Operating Characteristics (T _A =25°C)		Green (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	2.1	V	
Forward Voltage (Max.) (I _F =20mA)	V_{F}	2.6	V	
Reverse Current (Max.) (V _R =5V)	I_{R}	10	μА	
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	λР	574*	nm	
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	570*	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	15	nm	

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous CIE127 (I _F =2	0mA)	Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZVGT53W-6	Green	AlGaInP	Water Clear	20*	49*	574*	120°

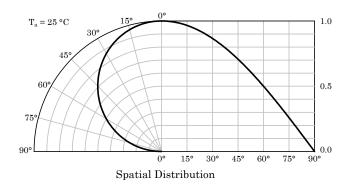
^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Oct 11.2024



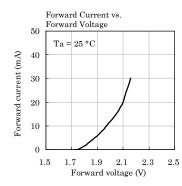
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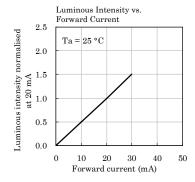


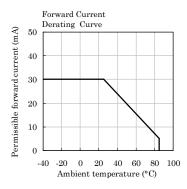
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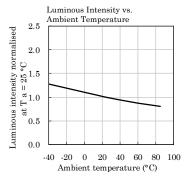


❖ Green



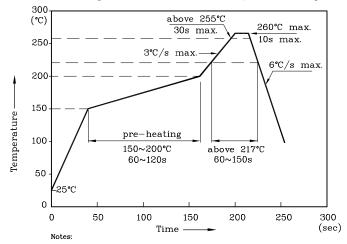






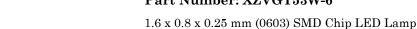
LED is recommended for reflow soldering and soldering profile is shown below.

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



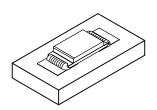
- 1. All temperatures refer to the center of the package,
- measured on the package body surface facing up during reflow.
- Do not apply any stress to the LED during high temperature conditions.Maximum number of soldering passes: 2



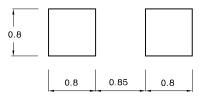


❖ The device has a single mounting surface. The device must be mounted according to the specifications.

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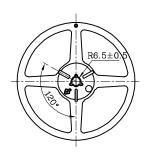


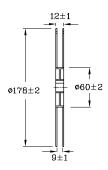
❖ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



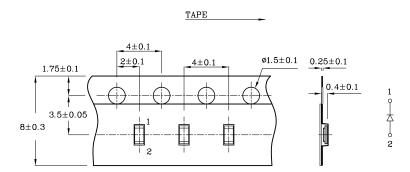
Mask open area ratio: 80% Mask thickness: 80~100um

❖ 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

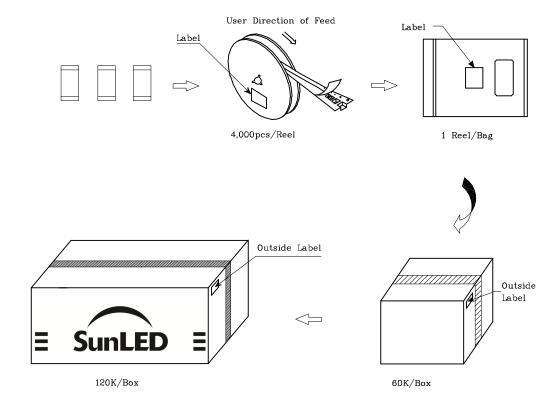
Note: Accuracy may depend on the sorting parameters.

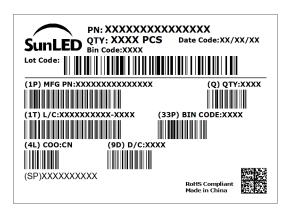


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PACKING & LABEL SPECIFICATIONS

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XDSB2215 V11-Z Layout: Maggie L.