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 $2.0 \times 1.25 \text{ mm}$ 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

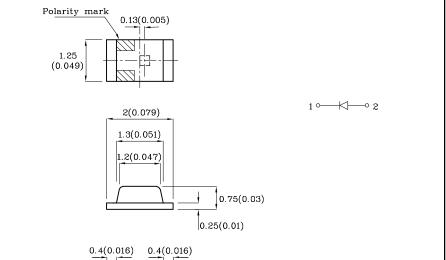






ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Package Schematics



- 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)		Orange (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_{FS}	150	mA	
Power Dissipation	P_{D}	84	mW	
Operating Temperature	T_{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)		Orange (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =2mA)	V_{F}	1.8	V
Forward Voltage (Max.) (I _F =2mA)	V_{F}	2.1	V
Reverse Current (Max.) $(V_R=5V)$	I_R	10	μА
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =2mA)	λР	611*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =2mA)	λD	605*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =2mA)	Δλ	17	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	27	pF

49*

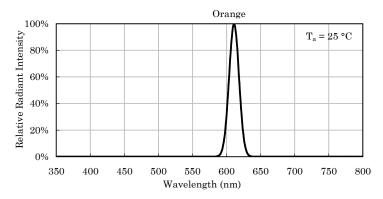
Part Number	Emitting Color	Emitting Material	Lens-color	CIE127-2007* (I _F =2mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZCM2MOK54WA-1VF	Orange	AlGaInP	Water Clear	80	148	611*	140°

30*

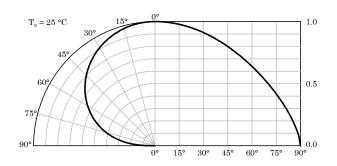
XDSB9472 V1-X Layout: Maggie L.

^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Oct 14,2021



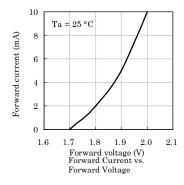


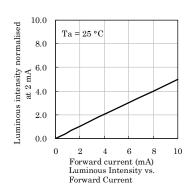
Relative Intensity Vs. CIE Wavelength

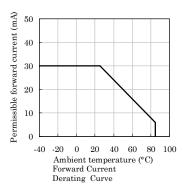


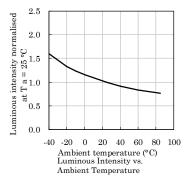
Spatial Distribution

❖ Orange



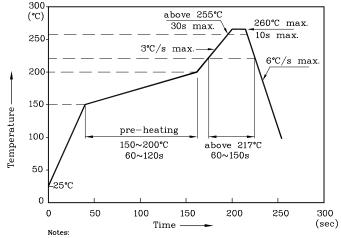






LED is recommended for reflow soldering and soldering profile is shown below.

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

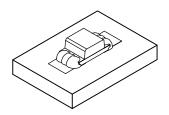


- 1. All temperatures refer to the center of the package,
- measured on the package body surface facing up during reflow. 2. Do not apply any stress to the LED during high temperature conditions 3. Maximum number of soldering passes: 2





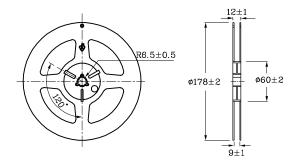
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



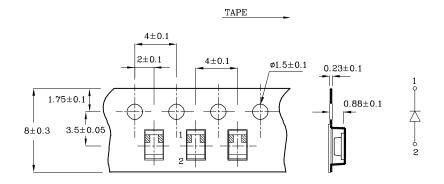
♦ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



❖ 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:

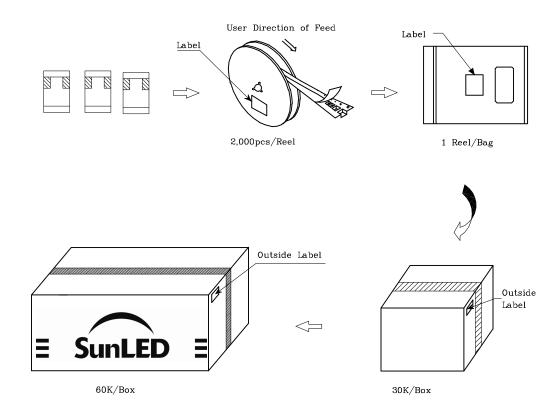
- 1. Wavelength: +/-1nm
- 2. Luminous intensity / luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

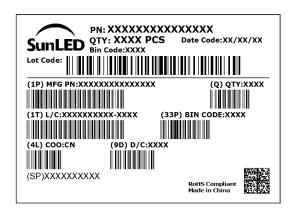
Note: Accuracy may depend on the sorting parameters.





PACKING & LABEL SPECIFICATIONS





TERMS OF USE

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- 2. Contents within this document are subject to improvement and enhancement changes without notice.
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- $6.\ Additional\ technical\ notes\ are\ available\ at\ \underline{https://www.SunLEDusa.com/TechnicalNotes.asp}$