E SunLED

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 $3.5 \times 2.8 \text{ mm PLCC2 SMD LED}$ 

#### **Features**

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2000pcs/ Reel
- $\bullet$  MSL (Moisture Sensitivity Level): 3
- Halogen-free
- RoHS compliant



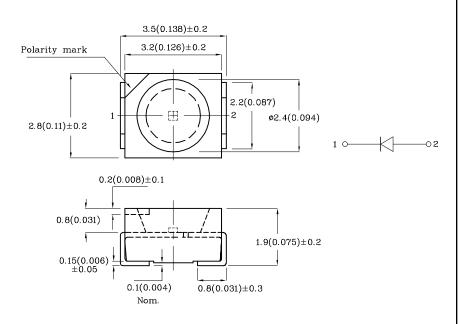




# ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC

FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

# Package Schematics



#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
- 3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T <sub>A</sub> =25°C)		Orange (AlGaInP)	Unit	
Reverse Voltage	$V_{\mathrm{R}}$	5	V	
Forward Current	$I_{\mathrm{F}}$	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	195	mA	
Power Dissipation	$P_{\mathrm{D}}$	75	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 <sub>A</sub> =25°C)	Orange (AlGaInP)	Unit		
Forward Voltage (Typ.) (I <sub>F</sub> =20mA)	$V_{\mathrm{F}}$	2.1	V	
Forward Voltage (Max.) (I <sub>F</sub> =20mA)	$V_{\mathrm{F}}$	2.5	V	
Reverse Current (Max.) $(V_R=5V)$	$I_{R}$	10	μA	
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)	λΡ	610*	nm	
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)	λD	605*	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =20mA)	Δλ	29	nm	
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	15	pF	

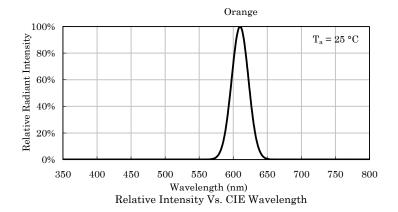
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous CIE127 ( $I_F$ =20 mo	-2007* (mA)	Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZMOK45WT	Orange	AlGaInP	Water Clear	200 120*	347 228*	610*	120°

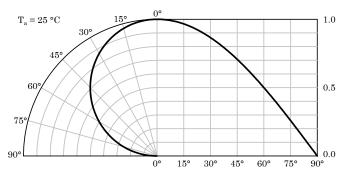
<sup>\*</sup>Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Mar 01,2023 XDSB8560 V4-X Layout: Maggie L.



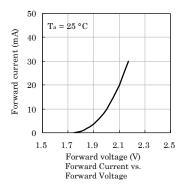


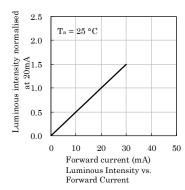


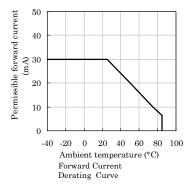


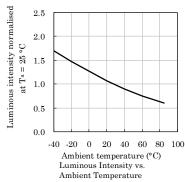
Spatial Distribution

# Orange



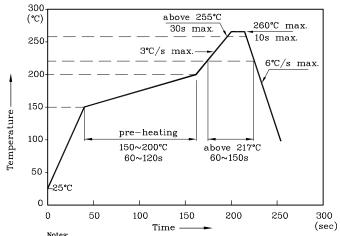






# LED is recommended for reflow soldering and soldering profile is shown below.

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



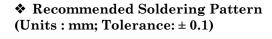
- 1. All temperatures refer to the center of the package,
- measured on the package body surface facing up during reflow.

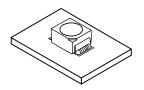
  2. Do not apply any stress to the LED during high temperature conditions.
- 3. Maximum number of soldering passes: 2

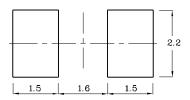




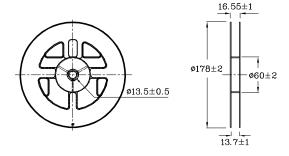
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



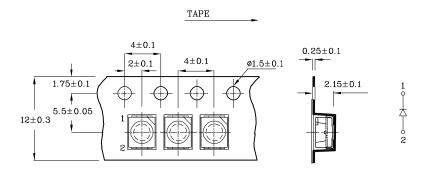




❖ Reel Dimension (Units:mm)



**❖** 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:

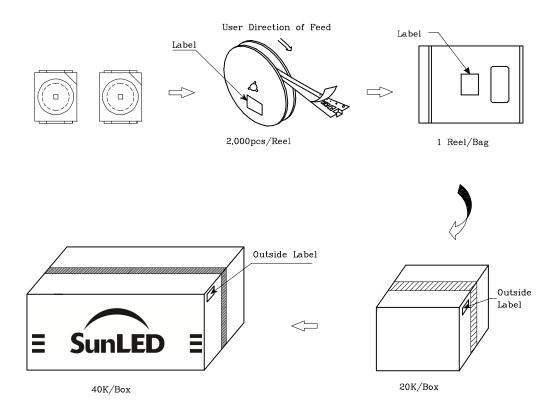
- 1. Wavelength: +/-1nm
- 2. Luminous intensity / luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

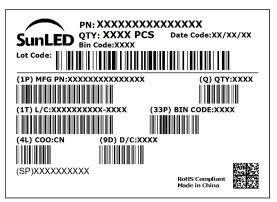
Note: Accuracy may depend on the sorting parameters.





### 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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