



Features

• Ideal for indication light on hand held products

www.SunLEDusa.com

- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- \bullet MSL (Moisture Sensitivity Level): 3
- RoHS compliant

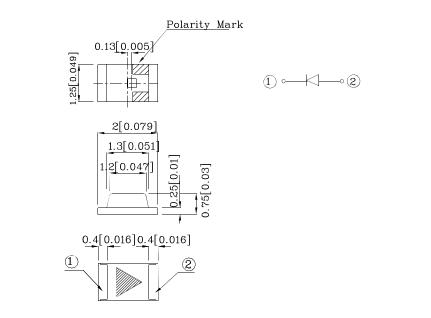






ATTENTION OBSERVE PRECAUTIONS FOR HANDLING $\begin{array}{c} \text{ELECTROSTATIC} \\ \text{DISCHARGE} \end{array}$ SENSITIVE DEVICES

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)		Yellow (AlGaInP)	Unit		
Reverse Voltage	$V_{\rm R}$	5	V		
Forward Current	I_{F}	30	mA		
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	140	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)	Yellow (AlGaInP)	Unit		
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	2	V	
Forward Voltage (Max.) (I _F =20mA)	$V_{ m F}$	2.5	V	
Reverse Current (Max.) (V _R =5V)	I_R	10	uA	
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =20mA)	λР	590*	nm	
Wavelength of Dominant EmissionCIE127-2007* (Typ.) λD (I _F =20mA)		590*	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$\triangle \lambda$	20	nm	
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	45	pF	

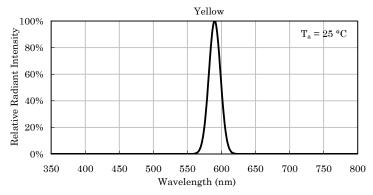
Part Numb	er	Emitting Color	Emitting Material	Lens-color	Luminous CIE127 (I _F =20 mo	-2007* 0mA)	Wavelength CIE127-2007* nm λΡ	Viewing Angle 20 1/2
					min.	typ.		
XZM2CYK	54W-1	Yellow	AlGaInP	Water Clear	200*	318*	590*	140°

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

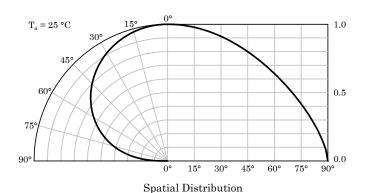
Oct 30,2018



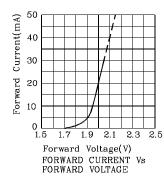


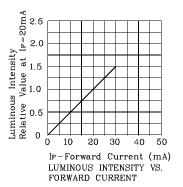


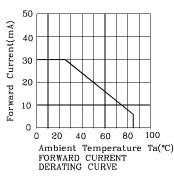
Relative Intensity Vs. CIE Wavelength

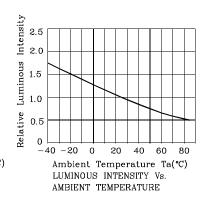


❖ Yellow



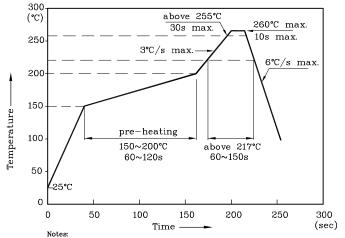






LED is recommended for reflow soldering and soldering profile is shown below.

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



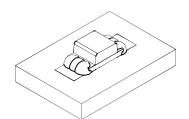
- 1. All temperatures refer to the center of the package, measured on the package body surface facing up during reflow.
- 2. Do not apply any stress to the LED during high temperature conditions.

 3. Maximum number of soldering passes: 2

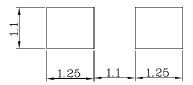




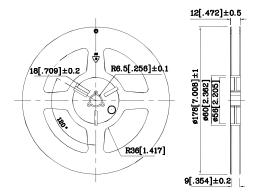
♦ The device has a single mounting surface. The device must be mounted according to the specifications.



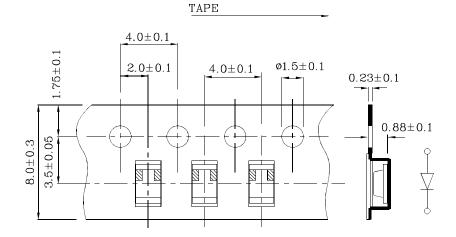
❖ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



❖ Reel Dimension



❖ 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:

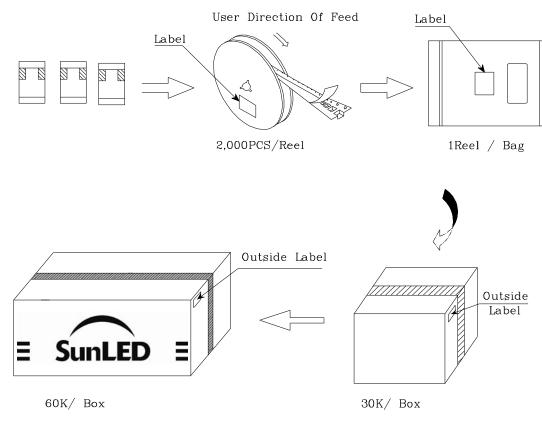
- 1. Wavelength: +/-1nm
- 2. Luminous intensity / luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

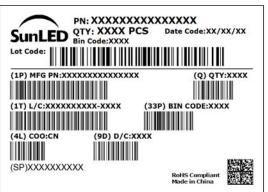
Note: Accuracy may depend on the sorting parameters.





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 contents within this document may not be altered without prior consent by SunLED.
- 6. Additional technical notes are available at https://www.SunLEDusa.com/TechnicalNotes.asp

XDSB7772 V3-Z Layout: Maggie L.