

3.0x2.5mm SURFACE MOUNT LED LAMP

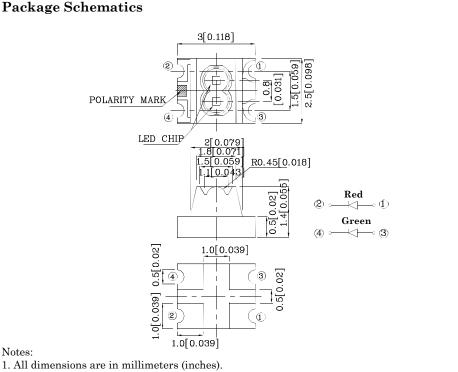
Features

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





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



2. Tolerance is $\pm 0.2(0.008")$ unless otherwise noted.

3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)		Red (AlGaInP)	Green (AlGaInP)	Unit
Reverse Voltage	VR	5	5	V
Forward Current	$I_{\rm F}$	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{\rm FS}$	185	150	mA
Power Dissipation	P_{D}	75	75	mW
Operating Temperature	TA	-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 Charac (T _A =25°C)	cteristics		Red (AlGaInP)	Green (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)		$V_{\rm F}$	1.95	2.1	v	
Forward Voltage (Max.) (I _F =20mA)		VF	2.5	2.5	v	
Reverse Current (Max.) (V _R =5V)		I_R	10	10	μΑ	
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)		λP	645*	574*	nm	
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)		λD	630*	570*	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)		$\bigtriangleup\lambda$	28	20	nm	
Capacitance (Typ.) (V _F =0V, f=1MHz)		С	35	15	pF	
Lens-color	CIE127-2	Luminous Intensity CIE127-2007* (IF=20mA) mcd		007* Ang	Viewing Angle 20 1/2	
	min.	typ.				
- Water Clear -	500 120*	995 297*	645*	645*		
	20	140		50		

148

148*

80

80*

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

Emitting

Color

Red

Green

Emitting

Material

AlGaInP

AlGaInP

Feb 21,2019

Part

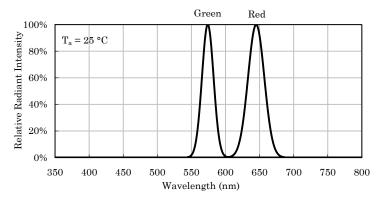
Number

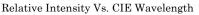
XZMDKVG57W-1

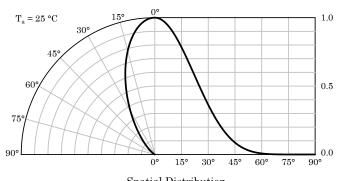
XDSA9507 V9-X Layout: Maggie L.

574*



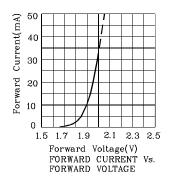


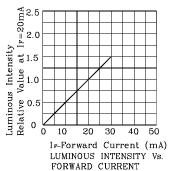


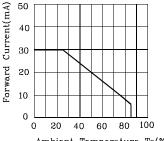


Spatial Distribution

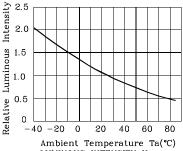
♦ Red





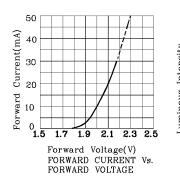


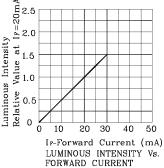
Ambient Temperature Ta(°C) FORWARD CURRENT DERATING CURVE

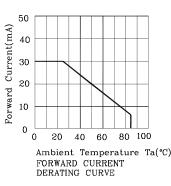


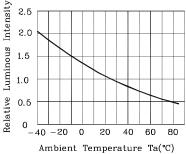
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

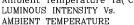
♦ Green





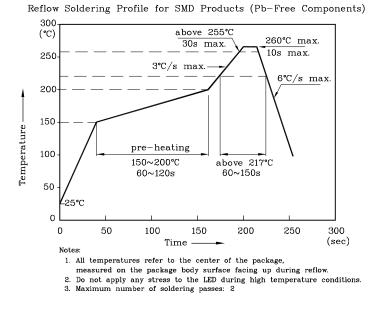




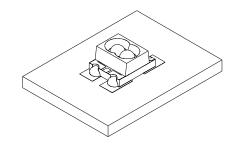




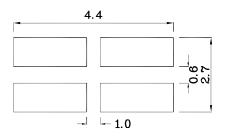
LED is recommended for reflow soldering and soldering profile is shown below.



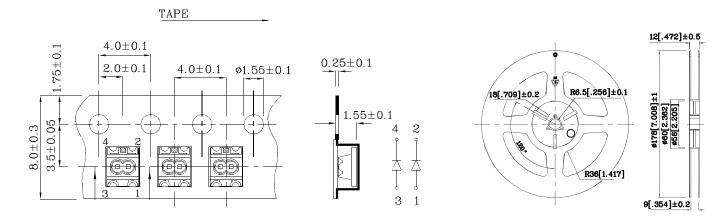
♦ The device has a single mounting surface. The device must be mounted according to the specifications.



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



Reel Dimension



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%

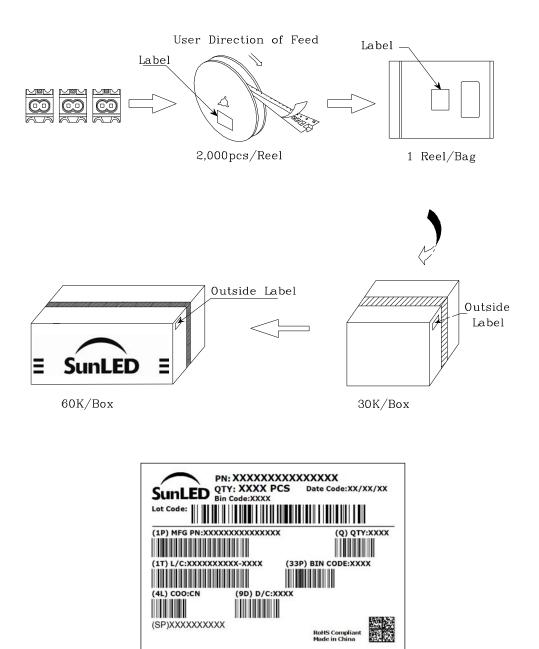
Tape Specification (Units : mm)

3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



PACKING & LABEL SPECIFICATIONS



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