

Part Number: XZMRVG67WTR

4.0x4.0mm RIGHT ANGLE SURFACE MOUNT LED LAMP

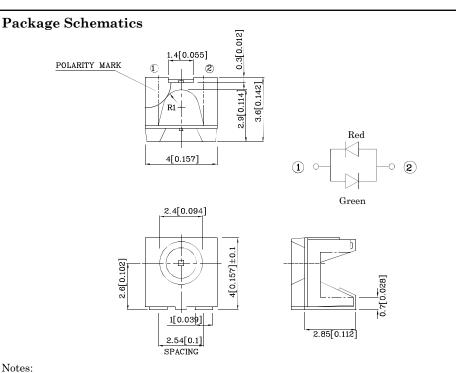
Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 500pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- RoHS compliant





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



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 _A =25°C)		Red (GaAlAs)	Green (AlGaInP)	Unit
Forward Current	$I_{\rm F}$	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	155	150	mA
Power Dissipation	\mathbf{P}_{D}	75	75	mW
Rated junction temperature	$T_{\rm J}$	110	120	°C
Thermal resistance (Junction/ambient)	$R_{th \; j\text{-}a}$	300	300	°C/W
Operating Temperature	TA	-40 ~ +85		°C
Storage Temperature	Tstg	$-40 \sim +85$		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)		Red (GaAlAs)	Green (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	$V_{\rm F}$	1.85	2.1	v
Forward Voltage (Max.) (I _F =20mA)	$V_{\rm F}$	2.5	2.5	v
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	λP	655*	574*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	640*	570*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$ riangle \lambda$	20	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	45	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZMRVG67WTR —	Red	GaAlAs	Water Clear	80 20*	198 59*	655*	120°
	Green	AlGaInP		40 40*	89 89*	574*	

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

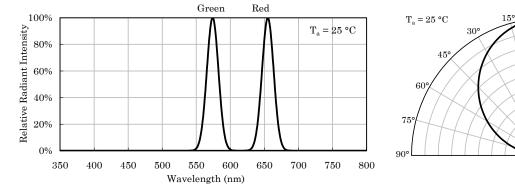
Jan 17,2018

XDSB8640 V2-X Layout: Maggie L.

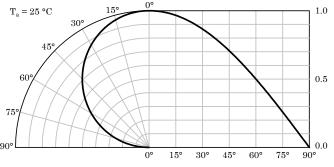


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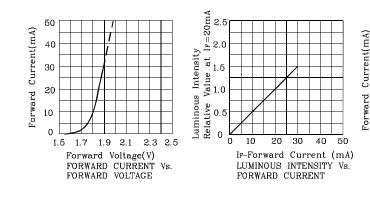


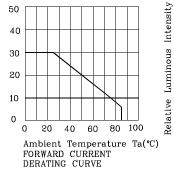
Relative Intensity Vs. CIE Wavelength

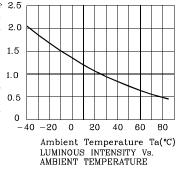


Spatial Distribution

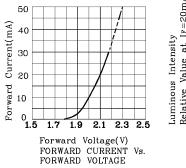
✤ Red



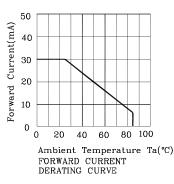


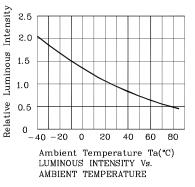


& Green



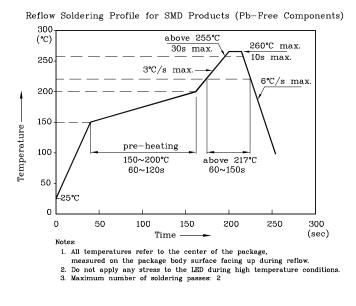
tisupper sector of the sector







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

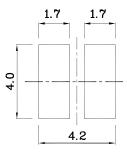


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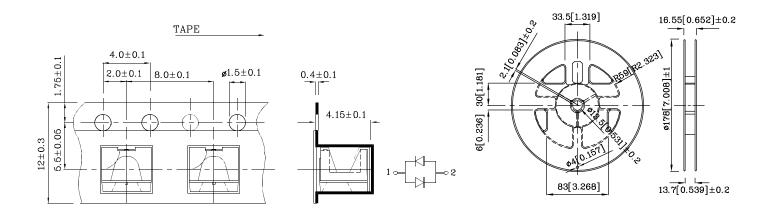
✤ The device has a single mounting surface. The device must be mounted according to the specifications.



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%

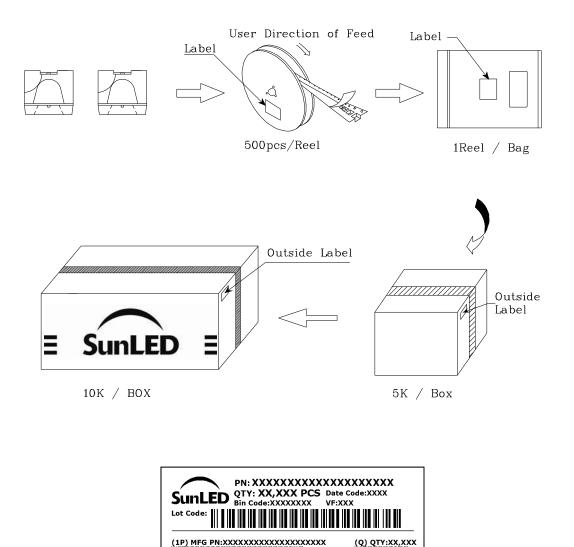
Tape Specification (Units : mm)

3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



PACKING & LABEL SPECIFICATIONS



/C:XXXX

BIN CODE:XXXXXXXX

RoHS Complian Made in China

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.

(4L) COO:CN

- 5. The contents within this document may not be altered without prior consent by SunLED.
- $6. \ Additional \ technical \ notes \ are \ available \ at \ \underline{http://www.SunLEDusa.com/TechnicalNotes.asp}$