



 $4.0\mathrm{x}4.0\mathrm{mm}$ RIGHT ANGLE SURFACE MOUNT LED

LAMP

Features

• Ideal for indication light on hand held products

• Long life and robust package

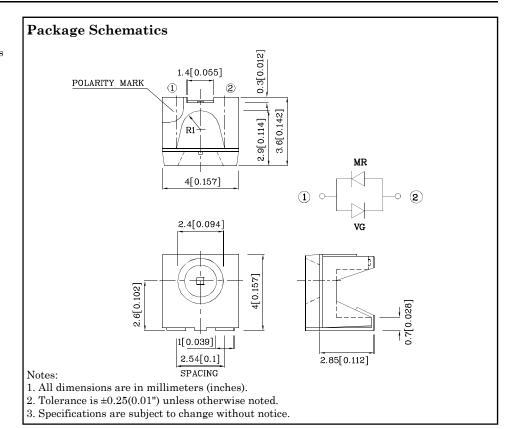
• Standard Package: 500pcs/ Reel

 \bullet MSL (Moisture Sensitivity Level): 3

• RoHS compliant







Absolute Maximum Ratings (T _A =25°C)		MR (GaAlAs)	VG (AlGaInP)	Unit
Forward Current	I_{F}	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	155	150	mA
Power Dissipation	P_{D}	75	75	mW
Operating Temperature	$T_{\rm A}$	-40 ~ +85		°C
Storage Temperature	Tstg	-40 ~ +85		-0

Operating Characteristics (T _A =25°C)		MR (GaAlAs)	VG (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	1.85	2.1	V
Forward Voltage (Max.) (I _F =20mA)	V_{F}	2.5	2.5	V
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	λР	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)	Δλ	20	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	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.		
XZMRVG67SA —	Red	GaAlAs	– Water Clear	80 20*	198 59*	655*	120°
	Green	AlGaInP	water Clear	40 40*	89 89*	574*	

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

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Part Number: XZMRVG67SA

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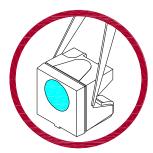
NT LED

Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force.

As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might lead to damage and premature failure of the LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools.



2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.



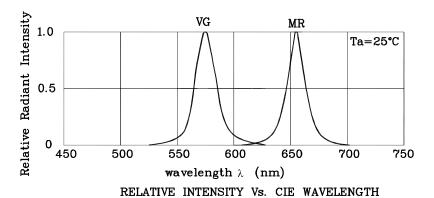


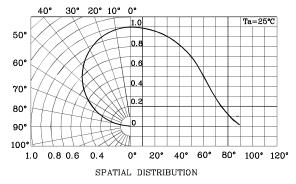
3. As silicone encapsulation is permeable to gases, some corrosive substances such as H_2S might corrode silver plating of leadframe. Special care should be taken if an LED with silicone encapsulation is to be used near such substances.

Part Number: XZMRVG67SA

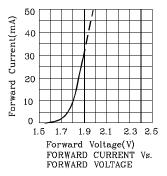
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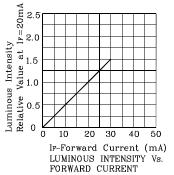
LAMP

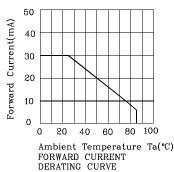


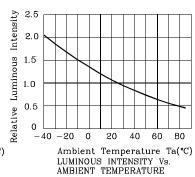


❖ MR

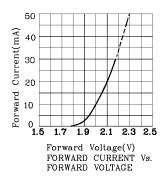


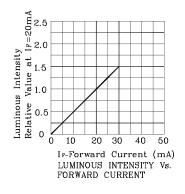


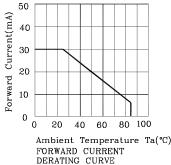


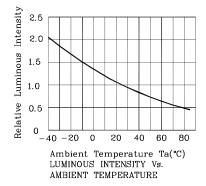


❖ VG



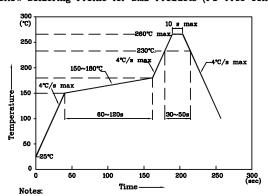






❖ LED is recommended for reflow soldering and soldering profile is shown below.

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

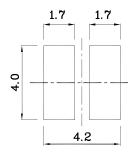


- Maximum soldering temperature should not exceed 260°C
- 2. Recommended reflow temperature: 145°C-260°C
- 3. Do not put stress to the epoxy resin during high temperatures conditions

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



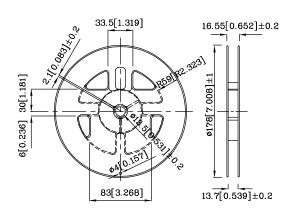
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



❖ Tape Specification (Units:mm)

TAPE .75±0.1 2.0 ± 0.1 8.0 ± 0.1 $\phi 1.5 \pm 0.1$ 0.4 ± 0.1 4.15±0.1 12 ± 0.3 5.5±0.

❖ 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:

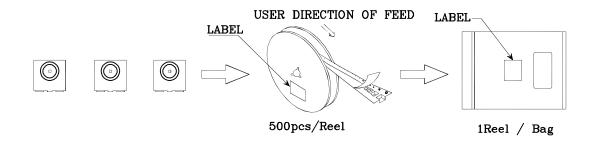
- 1. Wavelength: +/-1nm
- 2. Luminous intensity / luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

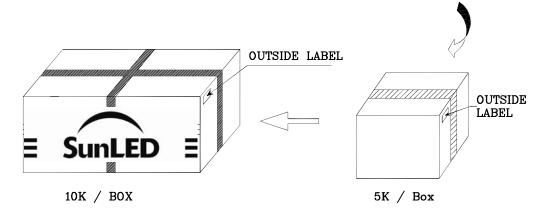
Note: Accuracy may depend on the sorting parameters.

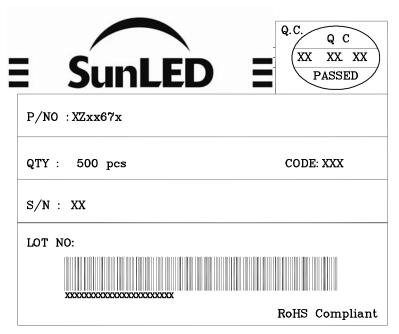
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PACKING & LABEL SPECIFICATIONS







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