

Part Number: XSMDKVG47M

2 x 5 mm Bi-Color Indicator Lamp

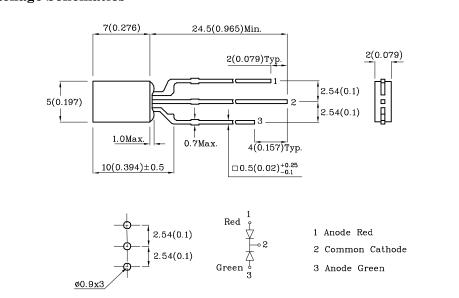
Features

- Radial / Through hole package
- Reliable & robust
- Low power consumption
- Available on tape and reel
- RoHS Compliant





Package Schematics





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 (AlGaInP)	Green (AlGaInP)	Unit	
Reverse Voltage	V_{R}	5	5	V	
Forward Current	$\mathbf{I}_{\mathbf{F}}$	30	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	185	150	mA	
Power Dissipation	PD	75	75	mW	
Operating Temperature	$T_{\rm A}$	-40 ~ +85		°C	
Storage Temperature	Tstg	-40 ~			
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds				
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds				

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 (AlGaInP)	Green (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	$V_{\rm F}$	1.95	2.1	v
Forward Voltage (Max.) (I _F =20mA)	$V_{\rm F}$	2.5	2.5	v
Reverse Current (Max.) (V _R =5V)	I_R	10	10	μА
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)	$ riangle \lambda$	28	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	35	15	$_{\rm pF}$

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.		
XSMDKVG47M	Red	AlGaInP	White Diffused -	80 30*	$178 \\ 54^*$	645*	140°
	Green	AlGaInP		$15 \\ 15^*$	29 29*	574*	

*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Nov 24,2020

XDSA8095 V9-X Layout: Maggie L.



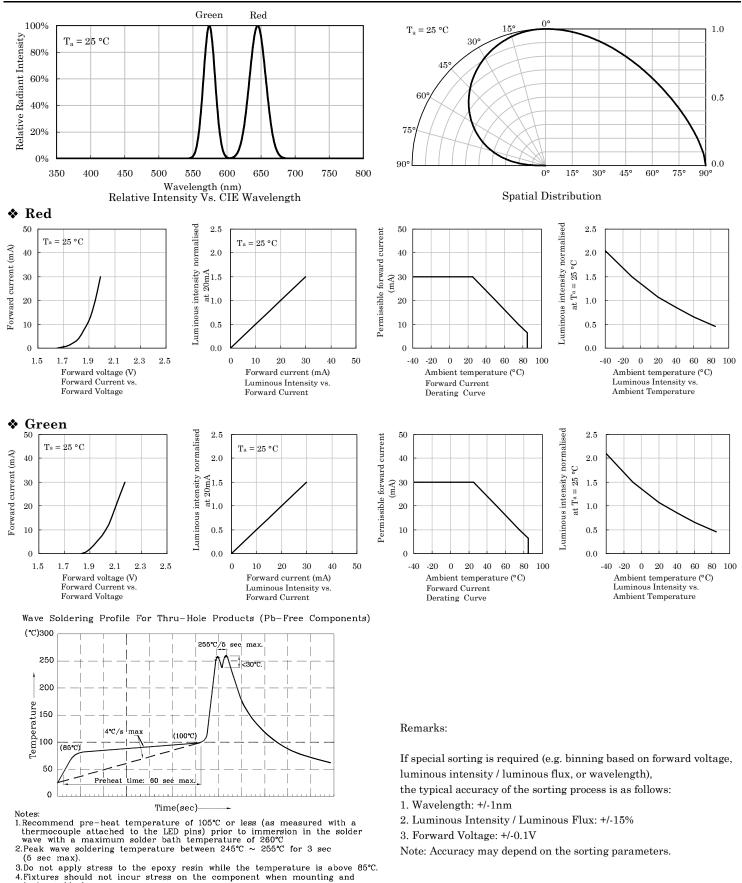
during soldering process. 5.SAC 305 solder alloy is recommended. 6.No more than one wave soldering pass.

Nov 24,2020

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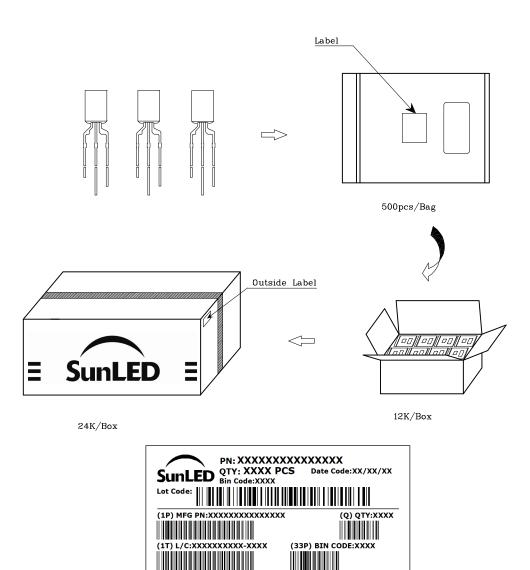


 $2 \ge 5$ mm Bi-Color Indicator Lamp





PACKING & LABEL SPECIFICATIONS



D/C:XXXX

RoHS Compliant Made in China

- 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.

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- 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

Nov 24,2020