

## Part Number: XSMDKVG47M

2 x 5 mm Bi-Color Indicator Lamp

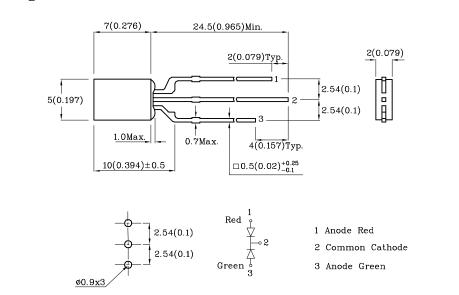
### Features

- Radial / Through hole package
- $\bullet$  Reliable & robust
- Low power consumption
- Available on tape and reel
- Halogen-free
- RoHS Compliant





# Package Schematics



Notes:

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 <sub>A</sub> =25°C)		Red (AlGaInP)	Green (AlGaInP)	Unit	
Reverse Voltage	$V_{\mathrm{R}}$	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	$\mathbf{P}_{\mathrm{D}}$	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 <sub>A</sub> =25°C)	Red (AlGaInP)	Green (AlGaInP)	Unit	
Forward Voltage (Typ.) (I <sub>F</sub> =20mA)	$V_{\rm F}$	1.95	2.1	v
Forward Voltage (Max.) (I <sub>F</sub> =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 <sub>F</sub> =20mA)	λP	645*	574*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)	λD	630*	570*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =20mA)	$ riangle\lambda$	28	20	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	35	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I <sub>F</sub> =20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
Red XSMDKVG47M Green	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. Mar 06.2023

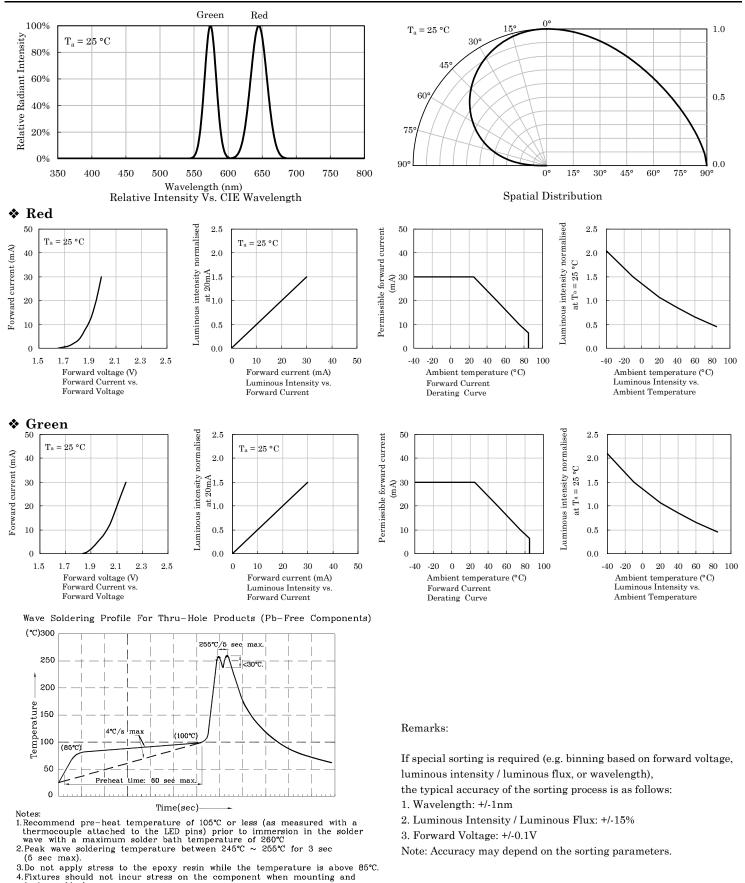
XDSA8095 V10-X Layout: Maggie



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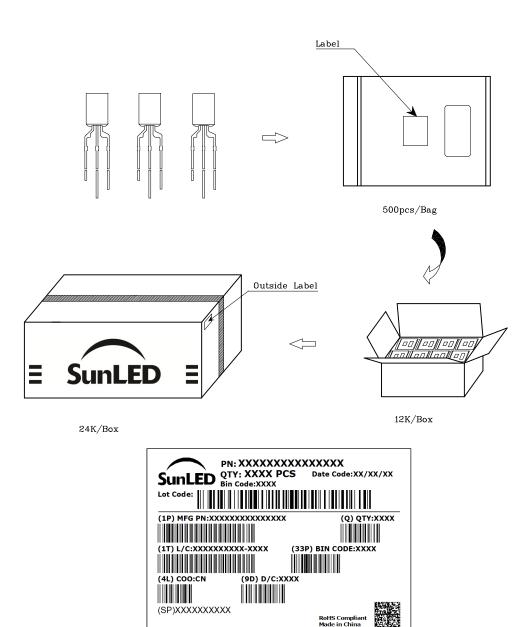
P. 2/3

Mar 06,2023

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



## **PACKING & LABEL SPECIFICATIONS**



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