

## Part Number: XLMDKVG59MCA

T-1 3/4 (5mm) Bi-Color Indicator Lamp

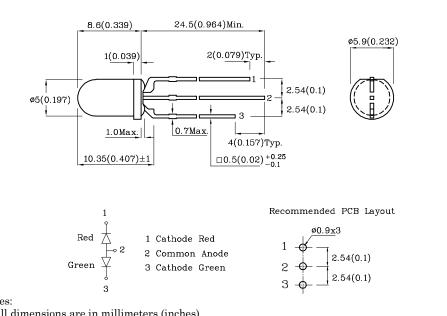
#### **Features**

- Radial / Through hole package
- Reliable & robust
- Low power consumption
- Available on tape and reel
- 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 ~	°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)

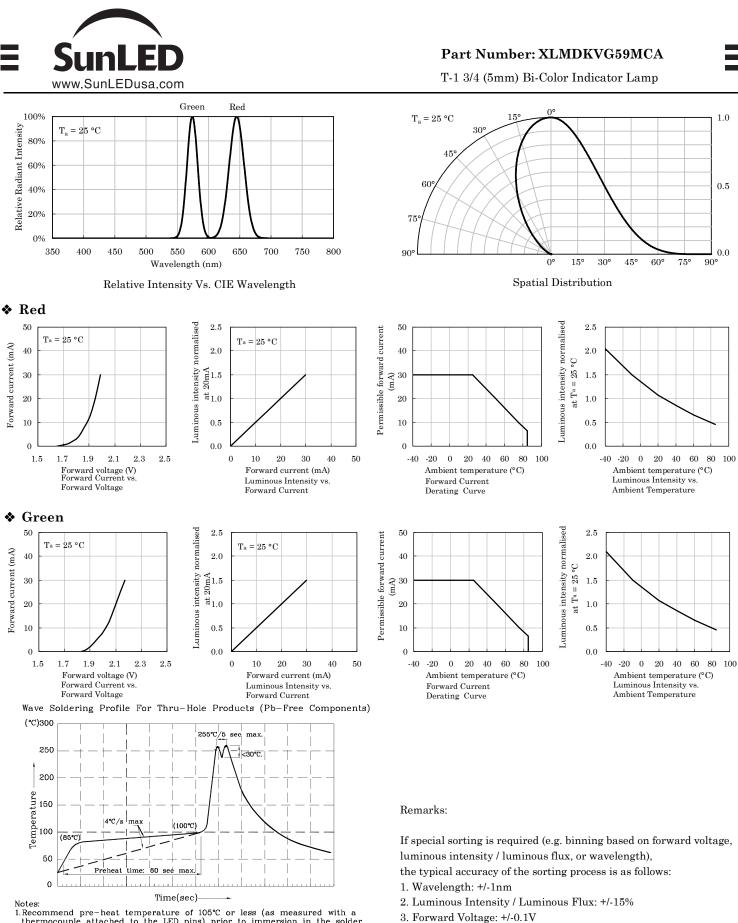
Operating Characteristics (T <sub>A</sub> =25°C)	Red (AlGaInP)	Green (AlGaInP)	Unit	
Forward Voltage (Typ.) (I <sub>F</sub> =20mA)	$V_{\rm F}$	1.95	2.1	V
Forward Voltage (Max.) (I <sub>F</sub> =20mA)	$V_{\rm F}$	2.5	2.5	v
Reverse Current (Max.) (V <sub>R</sub> =5V)	$I_{R}$	10	10	μΑ
Wavelength of Peak 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* (IF=20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
Red XLMDKVG59MCA Green	Red	AlGaInP	White Diffused -	55 18*	98 39*	645*	60°
	Green	AlGaInP		8 8*	19 19*	574*	

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

Nov 24, 2020

XDSB0431 V5-X Layout: Maggie L.



Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
 Peak wave soldering temperature between 245°C ~ 255°C for 3 sec

- (5 sec max).
- 3.Do not apply stress to the epoxy resin while the temperature is above 85°C. 4. Fixtures should not incur stress on the component when mounting and

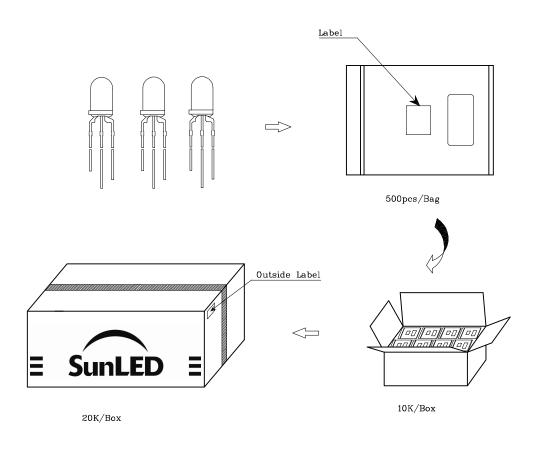
during soldering process. 5.SAC 305 solder alloy is recommended. 6.No more than one wave soldering pass.

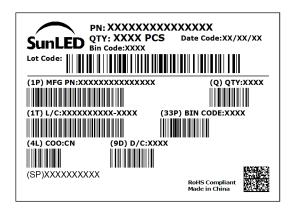
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Note: Accuracy may depend on the sorting parameters.



### PACKING & LABEL SPECIFICATIONS





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