

Part Number: XLMDKVG59MCA

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

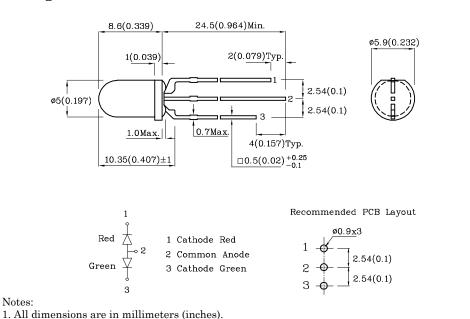
Features

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





Package Schematics



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	$V_{\rm R}$	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 ~	°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)

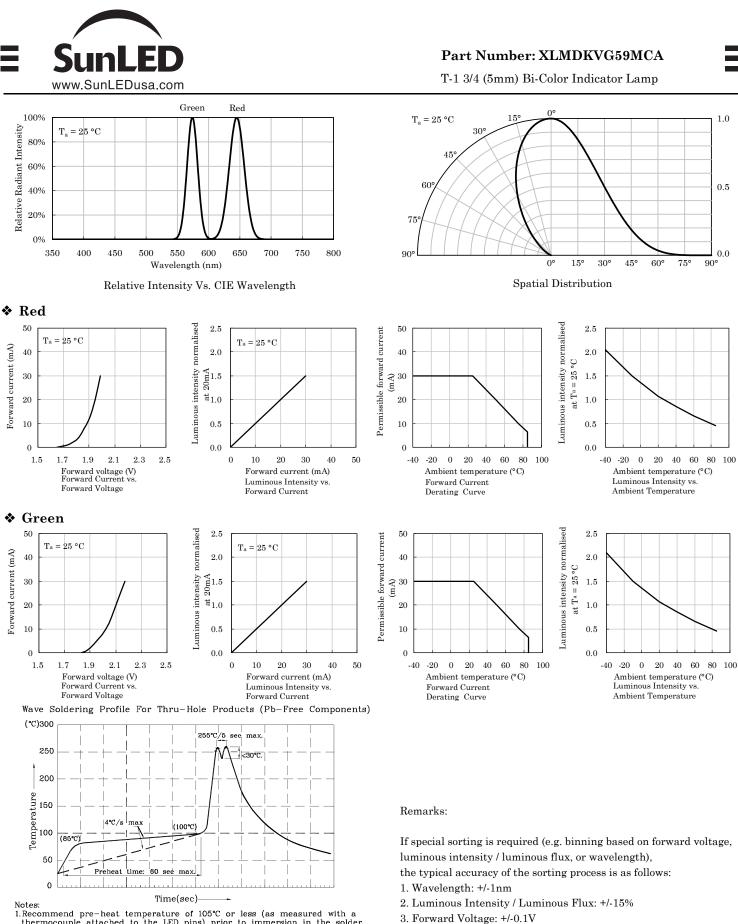
Operating Characteristics (T _A =25°C)		Red (AlGaInP)	Green (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	$V_{\rm F}$	1.95	2.1	v
Forward Voltage (Max.) (I _F =20mA)	$V_{\rm F}$	2.5	2.5	v
Reverse Current (Max.) (V _R =5V)	I_{R}	10	10	μΑ
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	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	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.		
XLMDKVG59MCA	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.

Dec 16, 2022

XDSB0431 V6-X Layout: Maggie L.



Notes:
1. 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
2. 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.

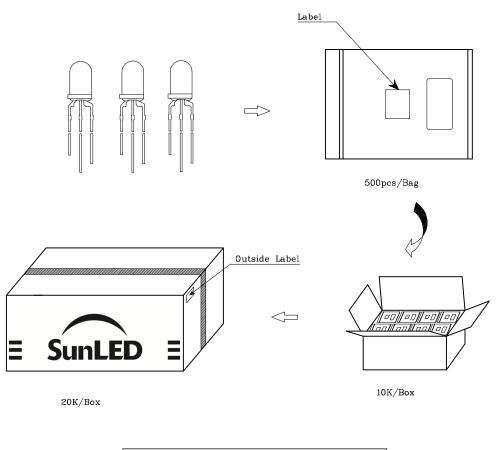
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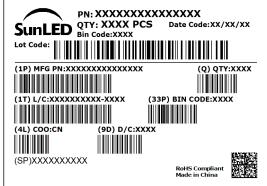
Note: Accuracy may depend on the sorting parameters.

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PACKING & LABEL SPECIFICATIONS





TERMS OF USE

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- 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
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