

# Part Number: XLMDKVG29M

T-1(3mm) Bi-Color Indicator Lamp

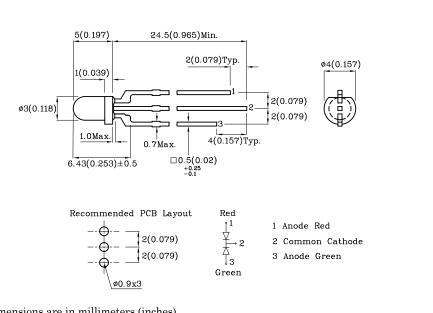
- Radial / Through hole package
- Reliable & robust
- Low power consumption
- Available on tape and reel
- Halogen-free
- RoHS Compliant





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

### **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		Operating Characteristics $(T_A=25^{\circ}C)$		Red (AlGaInP)	Green (AlGaInP)	Unit	
Reverse Voltage	$V_{\mathrm{R}}$	5	5	V	Forward Voltage (Typ.)	$V_{\rm F}$	1.95	2.1	v
Forward Current	$\mathbf{I}_{\mathbf{F}}$	30	30	mA	(I <sub>F</sub> =20mA)				
Forward Current (Peak) 1/10 Duty Cycle	IFP	185	150	mA	Forward Voltage (Max.) (I <sub>F</sub> =20mA)	$V_{\rm F}$	2.5	2.5	v
0.1ms Pulse Width	IFF	100	100	1117.4	Reverse Current (Max.)	$I_R$	10	10	μΑ
Power Dissipation	$\mathbf{P}_{\mathrm{D}}$	75	75	mW	(V <sub>R</sub> =5V)				-
Operating Temperature	$T_{\rm A}$	-40 ~ +85		℃Wavelength of Peak℃Emission CIE127-2007* (Typ.)	λP	645*	574*	nm	
Storage Temperature	Tstg	-40 ~ +85		-0	(I <sub>F</sub> =20mA)				
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds			Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)	λD	630*	570*	nm	
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds			Spectral Line Full Width At Half-Maximum (Typ.)	Δλ	28	20	nm	

A Relative Humidity between 40% and 60% is recomm

ESD-protected work areas to reduce static build up du process (Reference JEDEC/JESD625-A and JEDEC/J

France Frank		Luminous In		y Waveler	V 101	wing
mended in luring assemb	lv.	At Half-Maximum (Typ.) (I <sub>F</sub> =20mA)	$ riangle\lambda$	28	20	n
5 Seconds		Spectral Line Full Width				
3 Seconds		Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)	λD	630*	570*	n
+85						

Part Number	Emitting Color	Emitting Material	Lens-color	CIE127-2007* (I <sub>F</sub> =20mA) mcd		CIE127-2007* nm λP	Viewing Angle 2θ 1/2
				min.	typ.		
XLMDKVG29M -	Red	AlGaInP	– White Diffused –	400 120*	695 248*	645*	60°
	Green	AlGaInP		40 40*	98 98*	574*	00-

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

Oct 17,2024

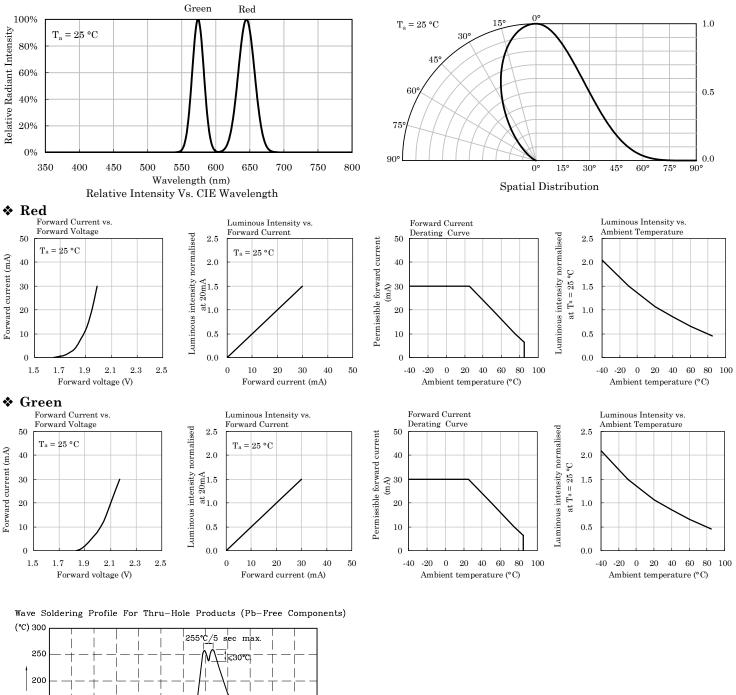
XDSA2559 V9-X Layout: Maggie L.



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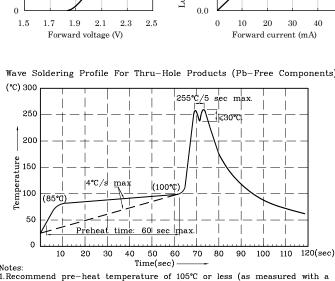


#### Remarks:

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.



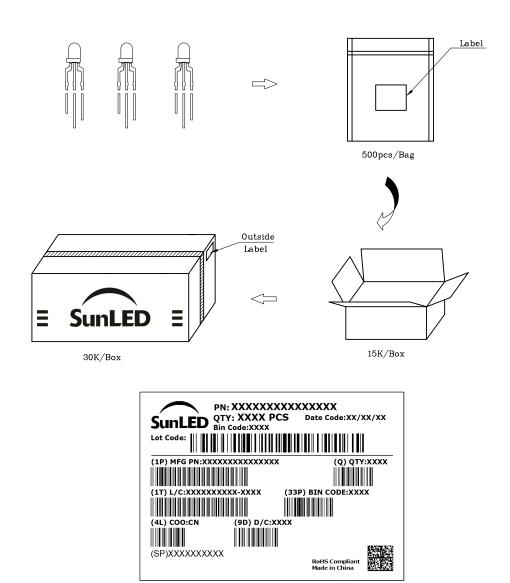
- Notes:
   Time(sec)

   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.



# **PACKING & LABEL SPECIFICATIONS**



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