

Part Number: XLMDKVG59M

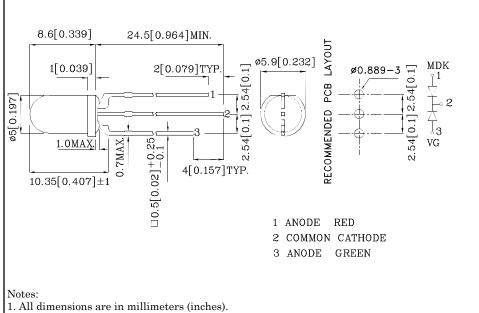
T-1 3/4 (5mm) BI-COLOR INDICATOR LAMP

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.

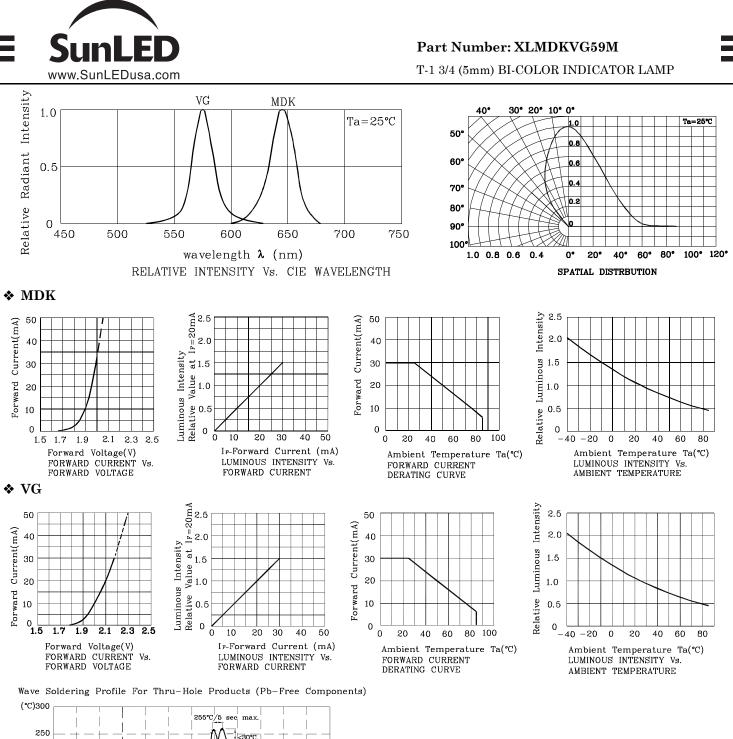
Absolute Maximum Ratings (T _A =25°C)		MDK (AlGaInP)	VG (AlGaInP)	Unit	
Reverse Voltage	V_{R}	5	5	V	
Forward Current	\mathbf{I}_{F}	30	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	185	150	mA	
Power Dissipation	\mathbf{P}_{D}	75	75	mW	
Operating Temperature	$T_{\rm A}$	-40 ~ +85		°C	
Storage Temperature	Tstg	-40 ~ +85			
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds				
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds				

Operating Characteristics (T _A =25°C)	MDK (AlGaInP)	VG (AlGaIn P)	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	uA
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.		
Red XLMDKVG59M	Red	AlGaInP	- White Diffused -	600 80*	1195 198*	645*	60°
	Green	AlGaInP		80 80*	178 178*	574*	

*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Dec 20,2013

XDSA7452 V9-X Layout: Maggie L.



Remarks:

1. Wavelength: +/-1nm

3. Forward Voltage: +/-0.1V

200 150 $4^{\circ}C/s$ ma (100°C) 100 (8 50 60 sec max. Preheat time: 0

Notes:

Temperature

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°C2. Peak wave soldering temperature between $245°C \sim 255°C$ for 3 sec (5 gas max)

Time(sec)

(5 sec max).

(a) See final).
(b) see final).
(c) apply stress to the epoxy resin while the temperature is above 85°C.
(c) Fixtures should not incur stress on the component when mounting and during soldering process.
(c) Composition of the stress of t

XDSA7452 V9-X Layout: Maggie L.

If special sorting is required (e.g. binning based on forward voltage,

luminous intensity / luminous flux, or wavelength),

2. Luminous Intensity / Luminous Flux: +/-15%

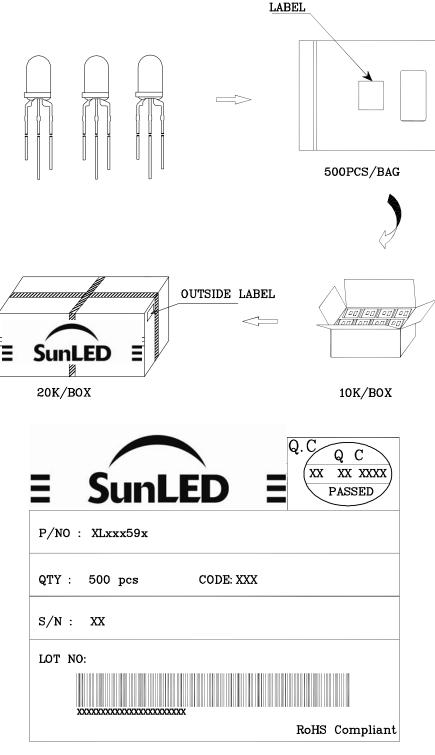
the typical accuracy of the sorting process is as follows:

Note: Accuracy may depend on the sorting parameters.



T-1 3/4 (5mm) BI-COLOR INDICATOR LAMP





TERMS OF USE

- 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.
- 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.
- $6. \ Additional \ technical \ notes \ are \ available \ at \ \underline{http://www.SunLEDusa.com/TechnicalNotes.asp}$