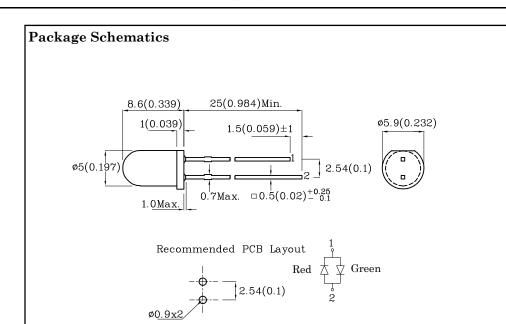


Part Number: XLUGR58M

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

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





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 _A =25°C)		Red (GaAsP/ GaP)	Green (GaP)	Unit	
Forward Current	I_{F}	30	25	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	160	140	mA	
Power Dissipation	\mathbf{P}_{D}	75	62.5	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)

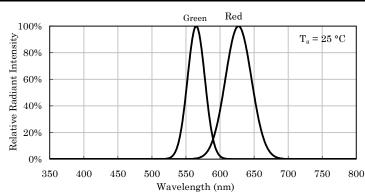
Operating Characteristics (T _A =25°C)	Red (GaAsP/ GaP)	Green (GaP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	$V_{\rm F}$	2	2.2	v
Forward Voltage (Max.) (I _F =20mA)	$V_{\rm F}$	2.5	2.5	v
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	λP	627*	565*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	617*	568*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$ riangle \lambda$	45	30	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	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 XLUGR58M	Red	GaAsP/GaP	· White Diffused –	12 6*	29 13*	627*	30°
	Green	GaP		12 12*	29 29*	565*	

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

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Relative Intensity Vs. CIE Wavelength



Green

50

40

30

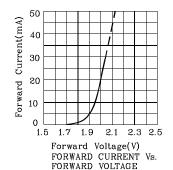
20

10

0

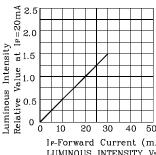
1.7 1.9

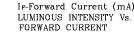
Forward Current(mA)

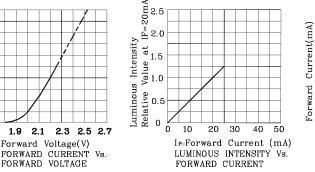


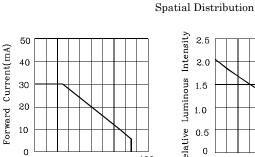
2.1

FORWARD









0 20

Part Number: XLUGR58M

30

 $T_a = 25 \ ^{o}C$

60

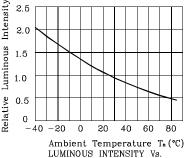
75

909

45

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

80 100 40 60 Ambient Temperature Te (°C) FORWARD CURRENT DERATING CURVE



30°

45° 60°

 15°

1.0

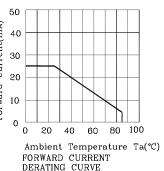
0.5

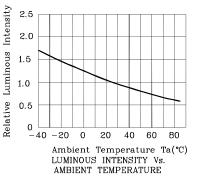
0.0

90

75°





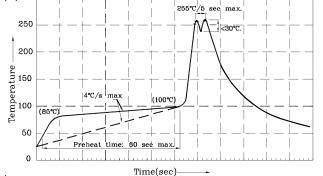


Remarks:

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.

Wave Soldering Profile For Thru-Hole Products (Pb-Free Components) (°C)300

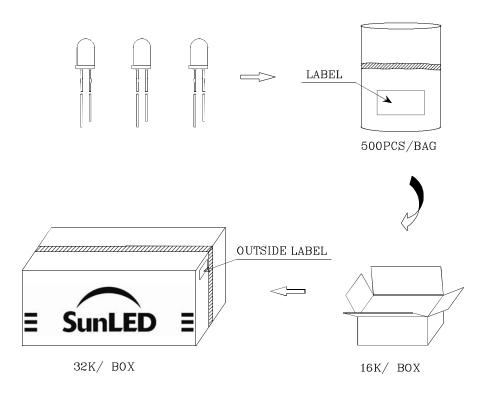


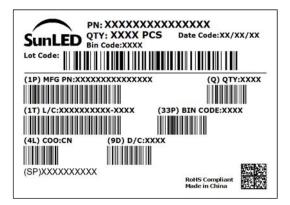
Notes:

- 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 gas max)
- (5 sec max).
- (a) See first).
 (b) see first).
 (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) SAC 305 solder alloy is recommended.
 (c) No more than one wave soldering pass.



PACKING & LABEL SPECIFICATIONS





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 https://www.SunLEDusa.com/TechnicalNotes.asp

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