

# Part Number: XLUGR29M

### T-1(3mm) BI-COLOR INDICATOR LAMP

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



□   3 Anode Green
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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 Rating (T <sub>A</sub> =25°C)	gs	Red (GaAsP/ GaP)	Green (GaP) Uni			
Reverse Voltage	$V_{\mathrm{R}}$	5	5	v		
Forward Current	$\mathbf{I}_{\mathbf{F}}$	30	25	mA		
Forward Current (Peak) ./10 Duty Cycle 0.1ms Pulse Width	ifs	160	140			
Power Dissipation	$\mathbf{P}_{\mathrm{D}}$	75	mW			
perating Temperature	$T_{\rm A}$	-40 ~	°C			
torage Temperature	Tstg	Гstg -40 ~ +85				
ead 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)

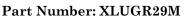
Operating Characteristics (T <sub>A</sub> =25°C)	Red (GaAsP/ GaP)	Green (GaP)	Unit	
Forward Voltage (Typ.) (I <sub>F</sub> =20mA)	$V_{\rm F}$	2	2.2	v
Forward Voltage (Max.) (I <sub>F</sub> =20mA)	$V_{\rm F}$	2.5	2.5	v
Reverse Current (Max.) (V <sub>R</sub> =5V)	$\mathbf{I}_{\mathbf{R}}$	10	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)	λP	627*	565*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)	λD	617*	568*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =20mA)	$ riangle\lambda$	45	30	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	15	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I <sub>F</sub> =20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XLUGR29M -	Red	GaAsP/GaP	- White Diffused -	$15 \\ 10*$	39 29*	627*	<u> </u>
	Green	GaP		20 20*	39 39*	565*	60°

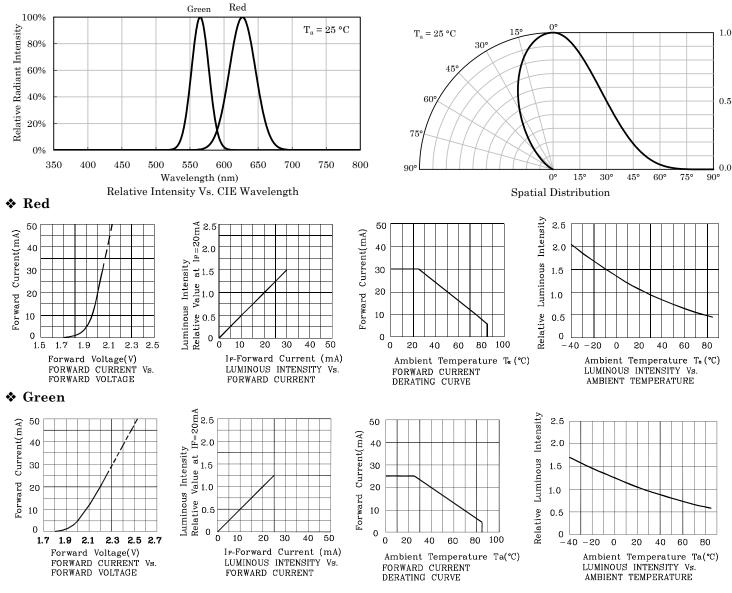
 ${\rm *Luminous\ intensity\ value\ and\ wavelength\ are\ in\ accordance\ with\ CIE127 {\rm \cdot}2007\ standards.}$ 

Nov 05,2018

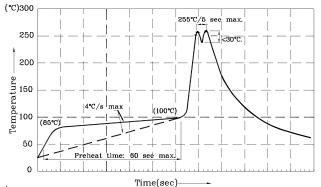
XDSA2556 V9-X Layout: Maggie L.



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



- 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.

#### 1. Wavelength: +/-1nm 2. Luminous Intensity / Luminous Flux: +/-15%

luminous intensity / luminous flux, or wavelength),

the typical accuracy of the sorting process is as follows:

3. Forward Voltage: +/-0.1V

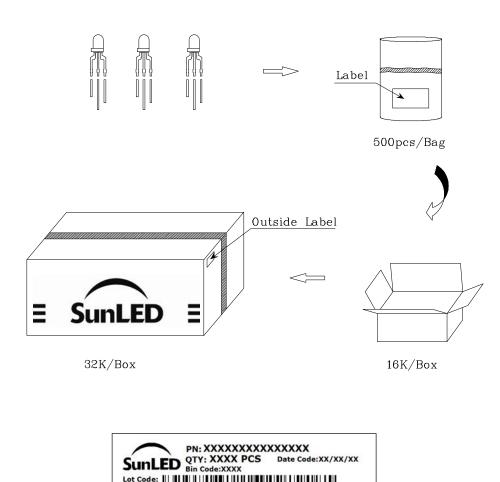
Remarks:

Note: Accuracy may depend on the sorting parameters.

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



## PACKING & LABEL SPECIFICATIONS



(Q) QTY:XXXX

(33P) BIN CODE:XXXX

RoHS Complia Made in China

(9D) D/C:XXXX

#### 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.

(1P) MFG PN:XXXXXXXXXXXXXXXXXXX

(4L) COO:CN

(SP)XXXXXXXXXX

:XXXXXXXXXXX-XXXX

- 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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