

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

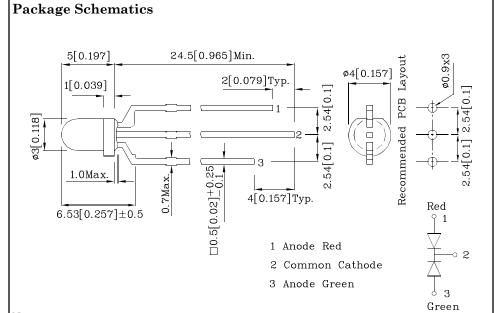
# 1

#### **Features**

- Radial / Through hole package
- $\bullet$  Reliable & robust
- Low power consumption
- Available on tape and reel
- 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 $(T_A=25^{\circ}C)$		Red (GaAsP/ GaP)	Green (GaP)	Unit	
Reverse Voltage	$V_{\mathrm{R}}$	5	5	V	
Forward Current	$I_{\mathrm{F}}$	30	25	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{\mathrm{FS}}$	160	140	mA	
Power Dissipation	$P_{D}$	75	62.5	mW	
Operating Temperature	$T_{A}$	-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 <sub>A</sub> =25°C)		Red (GaAsP/ GaP)	Green (GaP)	Unit
Forward Voltage (Typ.) (I <sub>F</sub> =20mA)	$V_{\mathrm{F}}$	2	2.2	V
Forward Voltage (Max.) (I <sub>F</sub> =20mA)	$V_{\mathrm{F}}$	2.5	2.5	V
Reverse Current (Max.) $(V_R=5V)$	$I_R$	10	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)	λΡ	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)	Δλ	45	30	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	15	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	$\begin{array}{c} Luminous\ Intensity\\ CIE127\text{-}2007*\\ (I_F\text{=}20\text{mA})\ mcd \end{array}$		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XLUGR34M -	Red	GaAsP/GaP	White Diffused -	15 8*	39 15*	627*	60°
	Green	GaP		20 20*	39 39*	565*	60-

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

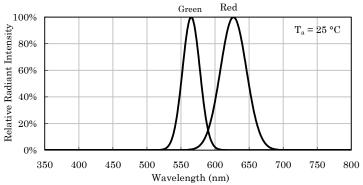
Nov 05,2018



### Part Number: XLUGR34M

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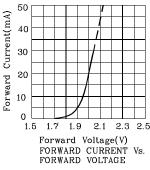


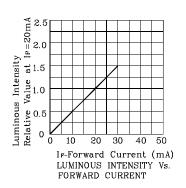
Relative Intensity Vs. CIE Wavelength

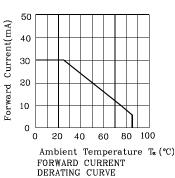
#### $T_a = 25$ °C 1.0 309 45 60 0.5 0.0 15° 30° 45° 60° 75° 90°

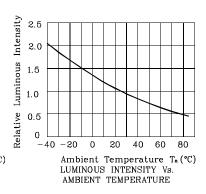
Spatial Distribution

#### ❖ Red

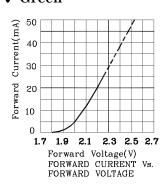


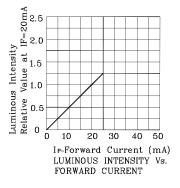


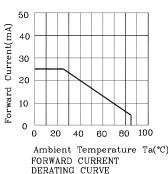


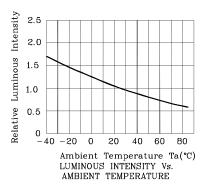


# Green

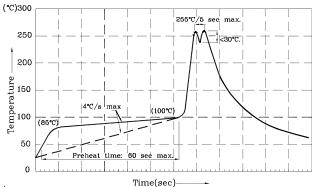








Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



- 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.

## 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:

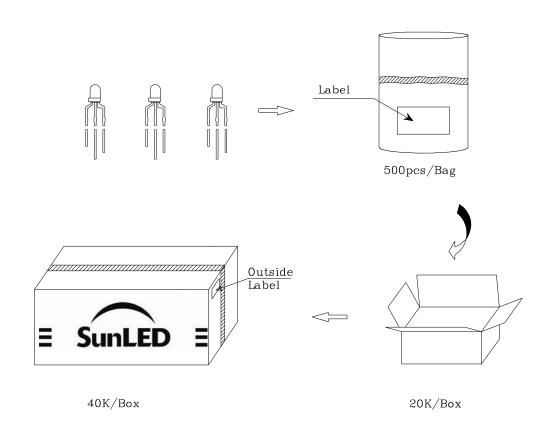
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

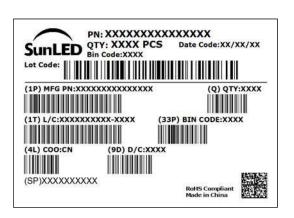
Note: Accuracy may depend on the sorting parameters.





#### PACKING & LABEL SPECIFICATIONS





# TERMS OF USE

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- 6. Additional technical notes are available at https://www.SunLEDusa.com/TechnicalNotes.asp

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XDSA2560 V10-X Layout: Maggie