

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

#### **Features**

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



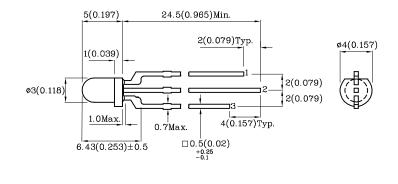


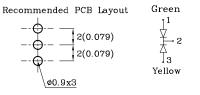


# ATTENTION OBSERVE PRECAUTIONS FOR HANDLING

SERVE PRECAUTION
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

# Package Schematics





- 1 Anode Green
- 2 Common Cathode
- 3 Anode Yellow

#### 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)		Green (AlGaInP)	Yellow (AlGaInP)	Unit		
Reverse Voltage	$V_{\mathrm{R}}$	5	5	V		
Forward Current	$I_{\mathrm{F}}$	30	30	mA		
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i <sub>FS</sub>	150	175	mA		
Power Dissipation	$P_{D}$	75	75	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 <sub>A</sub> =25°C)	Green (AlGaInP)	Yellow (AlGaInP)	Unit	
Forward Voltage (Typ.) (I <sub>F</sub> =20mA)	$V_{\mathrm{F}}$	2.1	2	V
Forward Voltage (Max.) (I <sub>F</sub> =20mA)	$V_{\mathrm{F}}$	2.5	2.5	V
Reverse Current (Max.) (V <sub>R</sub> =5V)	$I_{R}$	10	10	μA
Wavelength of Peak Emission CIE127-2007*(Typ.) (I <sub>F</sub> =20mA)	λΡ	574*	590*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) (I <sub>F</sub> =20mA)	λD	570*	590*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =20mA)	Δλ	20	20	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	15	20	pF

Part Number	Emitting Color	Emitting Material	Lens-color	$\begin{array}{c} \text{Luminous Intensity} \\ \text{CIE127-2007*} \\ \text{(I}_{\text{F}}\text{=20mA)} \\ \text{mcd} \end{array}$		Wavelength CIE127-2007* nm λP	Viewing Angle 2θ 1/2
				min.	typ.		
XLVGMYK29M Green Yellow	Green	AlGaInP	- White Diffused	55*	98*	574*	60°
	Yellow	AlGaInP	- wnite Diffused	120*	248*	590*	

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

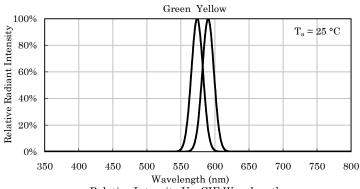
Nov 13,2020

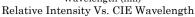


## Part Number: XLVGMYK29M

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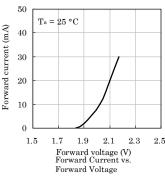


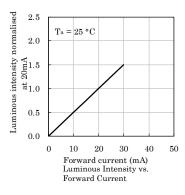


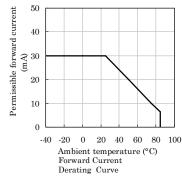
### $T_a = 25$ °C 1.0 30° 60 0.575 0.0 15° 30° 45° 60° $75^{\circ}$ 90°

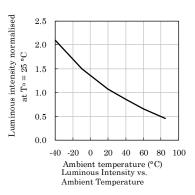
Spatial Distribution

#### Green

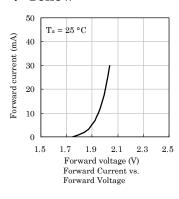


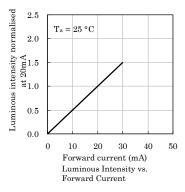


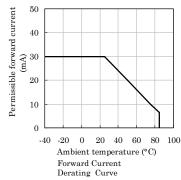


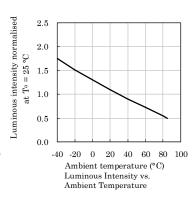


# Yellow

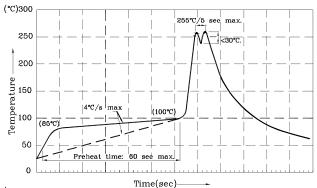








Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



- 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

  1. The reldering temperature between 245°C ~ 255°C for 3 sec
- 2.Peak wave soldering temperature between 245°C  $\sim$  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:

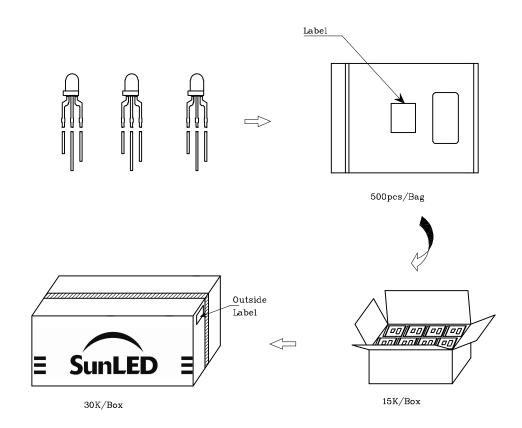
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

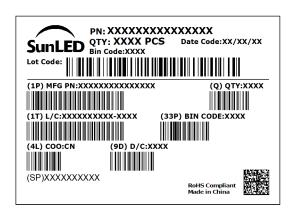
Note: Accuracy may depend on the sorting parameters.





## PACKING & LABEL SPECIFICATIONS





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XDSB9399 V1-Z Layout: Maggie L.