

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

Features

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







ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Package Schematics 24.5(0.965)Min. 5(0.197) ø4(0.157) 2(0.079)Typ 1(0.039) 2.54(0.1) ø3(0.118) 2.54(0.1) 1.0Max 0.7Max. 4(0.157)Typ □ 0.5(0.02) 6.53(0.257)±0.5 +0.25 Green Recommended PCB Layout 1 Ø0.9x3 1 Anode Green 2.54(0.1) 2 Common Cathode 3 Anode Yellow 2.54(0.1) 3 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.

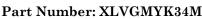
Absolute Maximum Ratings (T _A =25°C)		Green (AlGaInP)	Yellow (AlGaInP)	Unit	
Reverse Voltage	V_{R}	5	5	V	
Forward Current	I_{F}	30	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	150 175		mA	
Power Dissipation	P_{D}	75	75	mW	
Operating Temperature	$T_{\rm A}$	-40 ~	°C		
Storage 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)

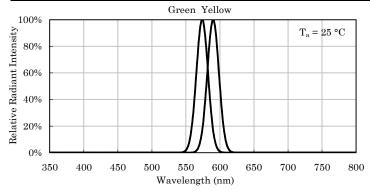
Operating Characteristics (T _A =25°C)		Green (AlGaInP)	Yellow (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	2.1	2	V
Forward Voltage (Max.) (I _F =20mA)		2.5	2.5	V
Reverse Current (Max.) (V _R =5V)	I_{R}	10	10	μA
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =20mA)	λΡ	574*	590*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) (I _F =20mA)	λD	570*	590*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	20	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)		15	20	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.		
	XLVGMYK34M	Green	AlGaInP	W/L:4- D:661	40*	118*	574*	60°
ALVGIVI I K54IVI	Yellow	AlGaInP	- White Diffused -	120*	297*	590*	60'	

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



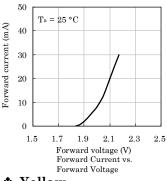


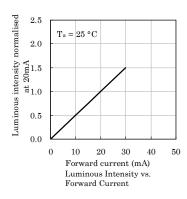


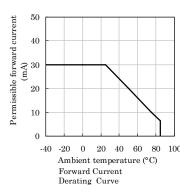
Relative Intensity Vs. CIE Wavelength

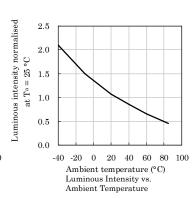
$T_a = 25$ °C 1.0 45 60 0.5 75 90 0.0 15° 30° 45° 60° 75° 90° Spatial Distribution

❖ Green

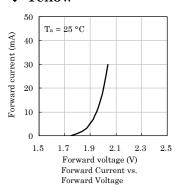


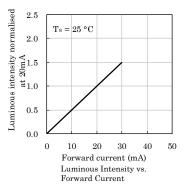


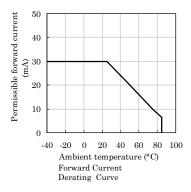


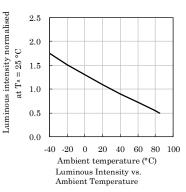


* Yellow

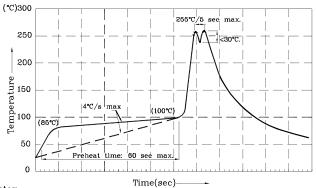








Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



- Roces.

 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 \sim 255°C for 3 sec (5 sec max).
- (a) 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

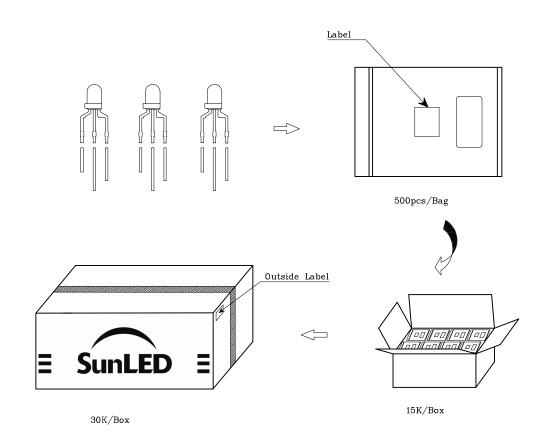
Note: Accuracy may depend on the sorting parameters.

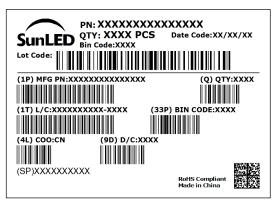
Nov 24, 2020





PACKING & LABEL SPECIFICATIONS





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XDSB3200 V5-Z Layout: Maggie L.