

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

Features

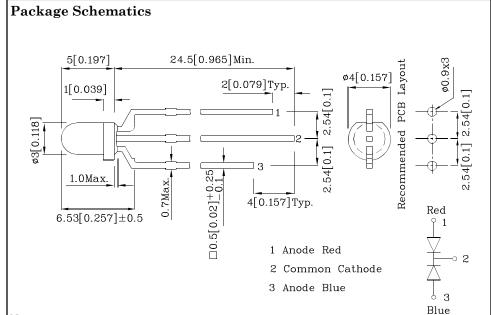
- Radial / Through hole package
- Reliable & robust
- Low power consumption
- Available on tape and reel
- RoHS compliant







ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



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 (AlGaInP)	Blue (InGaN)	Unit
Reverse Voltage V _R		5	5	V
Forward Current	I_{F}	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle iFS 0.1ms Pulse Width		185	150	mA
Power Dissipation	P_{D}	75	120	mW
Operating Temperature	$T_{\rm A}$	-40 ~ +85		°C
Storage Temperature	Tstg	-40 ~ +85		
Electrostatic Discharge Threshold (HBM)		3000	250	V
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)

Part	Emitting	Emitting
Number	Color	Material

Operating Characteristics (T _A =25°C)	Red (AlGaIn P)	Blue (InGaN)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	1.95	3.3	V
Forward Voltage (Max.) (I _F =20mA)	V_{F}	2.5	4	V
Reverse Current (Max.) $(V_R=5V)$	I_{R}	10	50	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	λP	645*	460*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	630*	465*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	28	25	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	35	100	pF

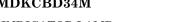
$ \begin{array}{c} \text{Luminous Intensity} & \text{Wavelength} \\ \text{CIE127-2007*} & \text{CIE127-2007*} \\ \text{(I_F=20mA)} & \text{nm} \\ \text{mcd} & \lambda P \end{array} \begin{array}{c} \text{Viewin} \\ \text{Angle} \\ \text{20 1/2} \end{array} $	gle
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				min.	typ.		
XLMDKCBD34M —	Red	AlGaInP	- Wil-it - Diff 1	400 80*	695 158*	645*	000
	Blue	InGaN	White Diffused -	100 100*	198 198*	460*	- 60°

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

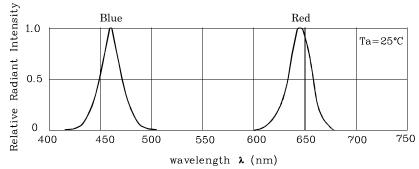
Oct 08,2016 XDSA9627 V6-X Layout: Maggie L.



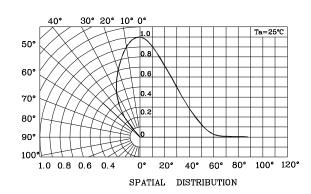


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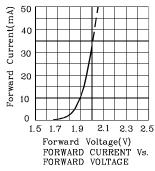
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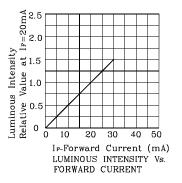


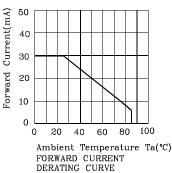
RELATIVE INTENSITY Vs. CIE WAVELENGTH

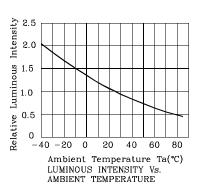


❖ Red

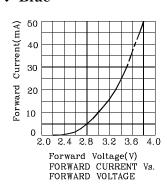


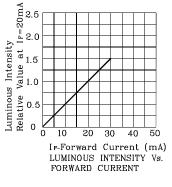


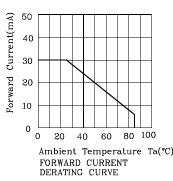


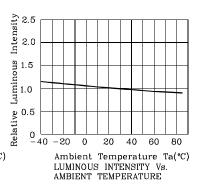


Blue

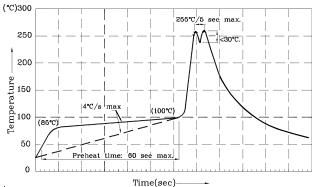








Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



- 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).
- (8 sec links).

 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:

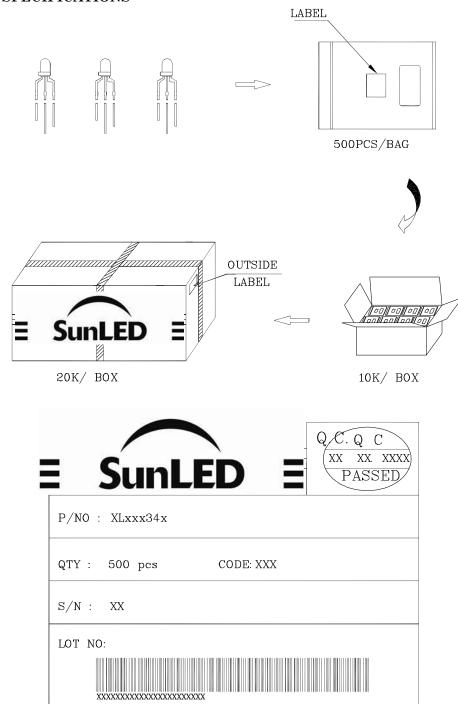
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



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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.

RoHS Compliant

- 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 http://www.SunLEDusa.com/TechnicalNotes.asp

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