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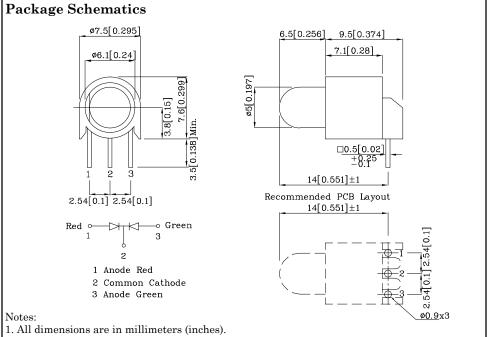
5mm One Position CBI Housing

Features

- Housing material: Type 66 Nylon
- Black casing provides superior contrast
- Housing UL rating: 94V-0
- \bullet Reliable & robust
- RoHS Compliant







- 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 (GaAsP/ GaP)	Green (GaP)	Unit		
Reverse Voltage	V_{R}	5	5	V		
Forward Current	I_{F}	30	25	mA		
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{\rm FS}$	160	140	mA		
Power Dissipation	P_{D}	75	62.5	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)	Red (GaAsP/ GaP)	Green (GaP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	2	2.2	V
Forward Voltage (Max.) (I _F =20mA)	V_{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 _F =20mA)	λΡ	627*	565*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	617*	568*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	45	30	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	15	pF

Wavelength

XDSA2862 V8-X Layout: Maggie L.

Luminous Intensity

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* $(I_F=20 \mathrm{mA})$ mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XVB1LUGR59M Green	Red	GaAsP/GaP	White Diffused -	30 20*	59 39*	627*	30°
	Green	GaP		20 20*	59 59*	565*	

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

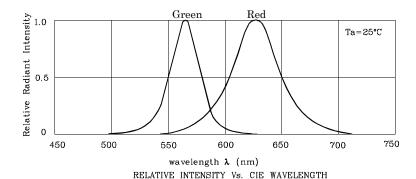
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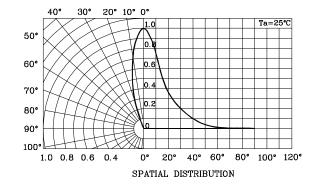




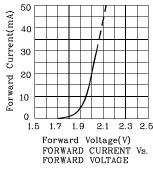


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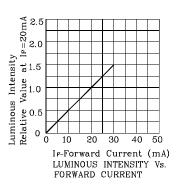


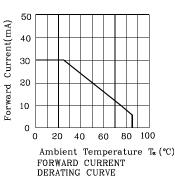


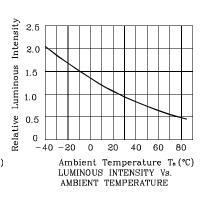
❖ Red



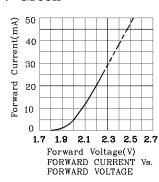
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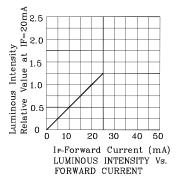


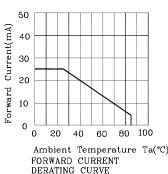


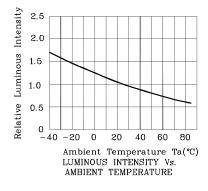


Green

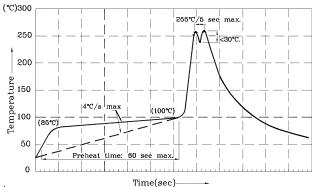








Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



- 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).
- (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),

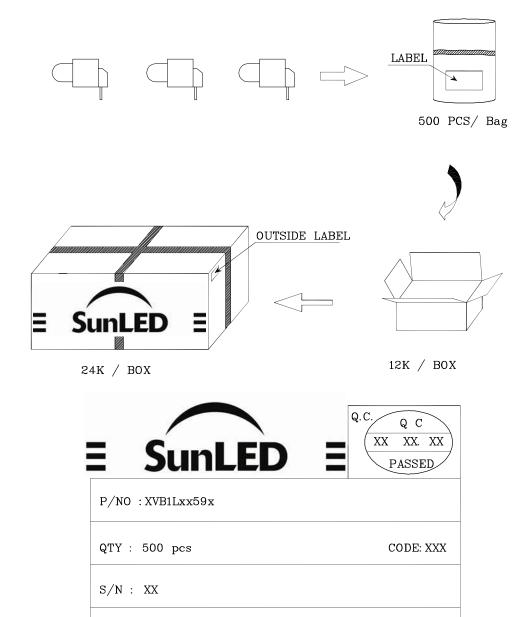
the typical accuracy of the sorting process is as follows:

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

Note: Accuracy may depend on the sorting parameters.



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.

LOT NO:

 $6. \ Additional\ technical\ notes\ are\ available\ at\ \underline{http://www.SunLEDusa.com/TechnicalNotes.asp}$

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