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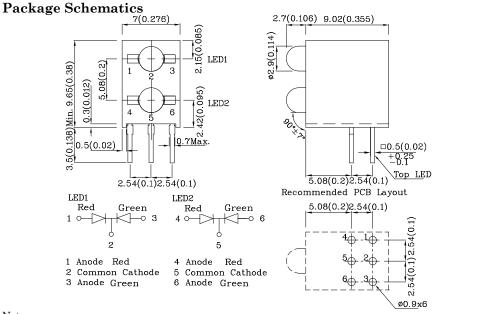
3mm Two Position CBI Housing

Features

- Housing material: Type 66 Nylon
- Black casing provides superior contrast
- Housing UL rating: 94V-0
- Reliable & robust
- Custom color combinations available
- 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.

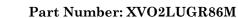
Absolute Maximum Ratings (T_A =25°C)		Red (GaAsP/ GaP)	Green (GaP)	Unit	
Reverse Voltage	$V_{\rm R}$	5	5	V	
Forward Current	I_{F}	30	25	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	160	140	mA	
Power Dissipation	P_{D}	75	62.5	mW	
Operating Temperature	$T_{\rm A}$	-40 ~	$^{\circ}\mathrm{C}$		
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

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XVO2LUGR86M	Red	GaAsP/GaP	White Diffused -	12 10*	29 23*	627*	60°
	Green	GaP		12 12*	29 29*	565*	

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



40°

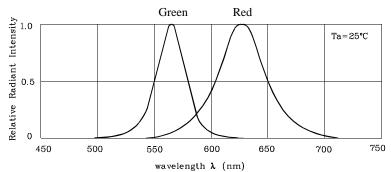


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20° 10° 0°



Ta=25°C

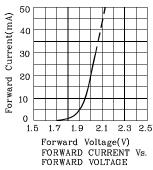


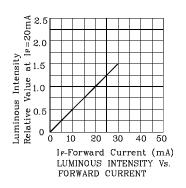
50° 60° 70° 80° 90° 100 1.0 0.8 0.6 0.4 20° 40° 60° 80° 100° 120°

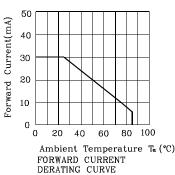
SPATIAL

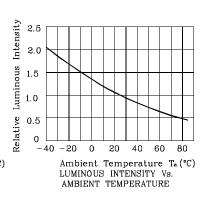
RELATIVE INTENSITY Vs. CIE WAVELENGTH

❖ Red



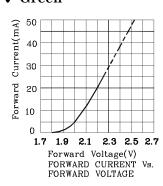


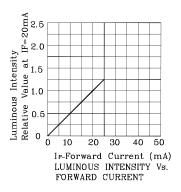


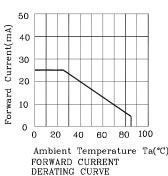


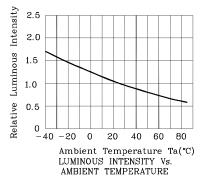
DISTRIBUTION

Green

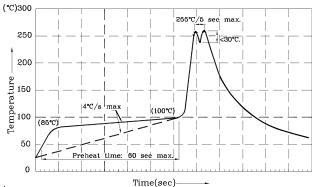








Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



Nov 09,2016

- 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:

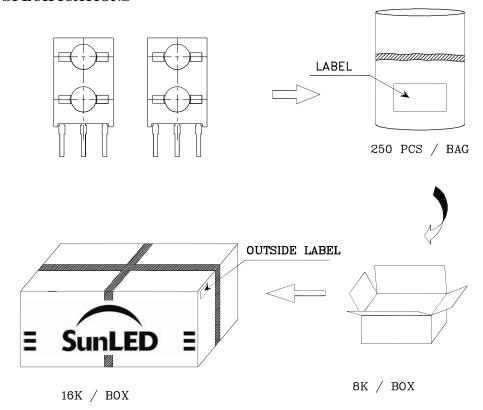
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

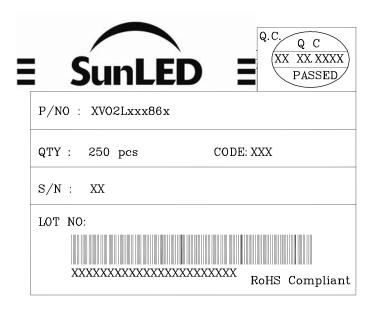
Note: Accuracy may depend on the sorting parameters.





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.
- 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

Nov 09,2016 XDSB1545 V3-X Layout: Maggie L.