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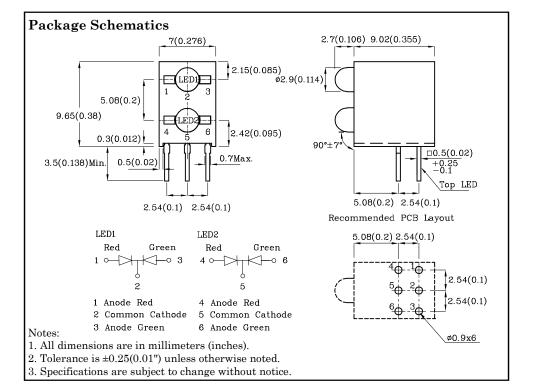
3mm Two Position CBI Housing

Features

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







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	ifs	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 $(T_A=25^{\circ}C)$		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	μA
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

Luminous Intensity

Part Number	Emitting Color	Emitting Material	Lens-color	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.

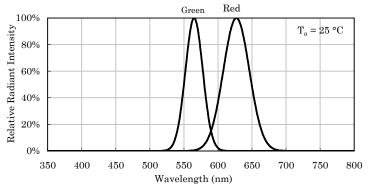
Dec 05,2020 XDSB1545 V4-X Layout: Maggie L.



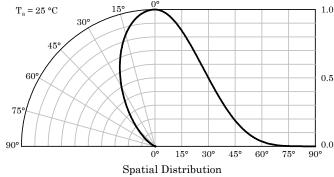
Part Number: XVO2LUGR86M

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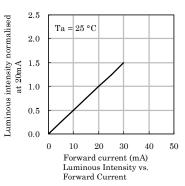


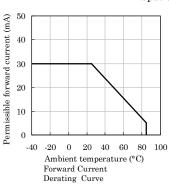


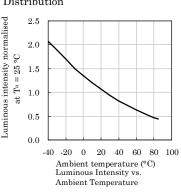
Relative Intensity Vs. CIE Wavelength



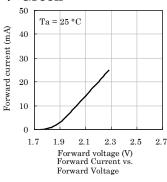
Red Ta = 25 °C Forward current (mA) 20 10 17 1.9 2.1 2.3 1.5 Forward voltage (V) Forward Current vs. Forward Voltage

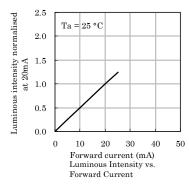


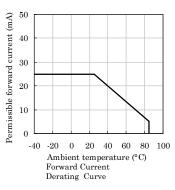


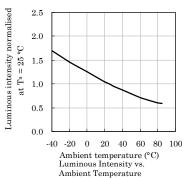


Green

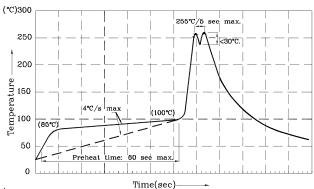








Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



Dec 05,2020

- 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).
- (o see 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:

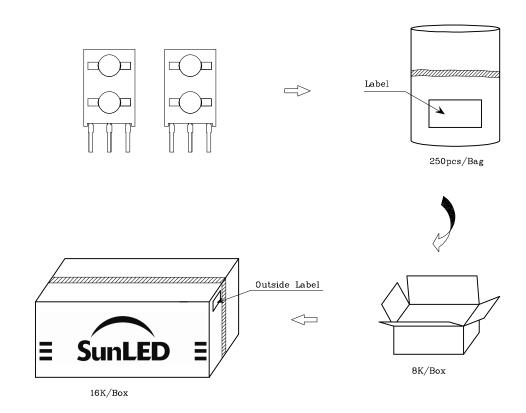
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

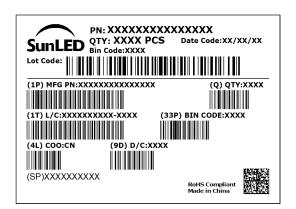
Note: Accuracy may depend on the sorting parameters.





PACKING & LABEL SPECIFICATIONS





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XDSB1545 V4-X Layout: Maggie L.