



3mm One Position CBI Housing

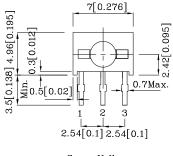
Features

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



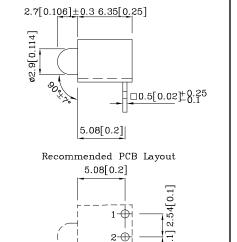


Package Schematics





- 1 Anode Green
- 2 Common Cathode
- 3 Anode Yellow



Ø0.9x3

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 (GaP)	Yellow (GaAsP/ GaP)	Unit		
Reverse Voltage	V_{R}	5	5	V		
Forward Current	I_{F}	25	30	mA		
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	140	140	mA		
Power Dissipation	P_{D}	62.5	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 (GaP)	Yellow (GaAsP/ GaP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	2.2	2.1	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	565*	590*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	568*	588*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	30	35	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	20	pF

Par Numb		Emitting Color	Emitting Material	Lens-color	$\begin{array}{c} Luminous \ Intensity \\ CIE127-2007* \\ (I_F=20mA) \ mcd \end{array}$		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
					min.	typ.		
XNN1LUGY86M —	Green	GaP	White Diffused -	18*	39*	565*	60°	
	Yellow	GaAsP/GaP		10*	19*	590*		

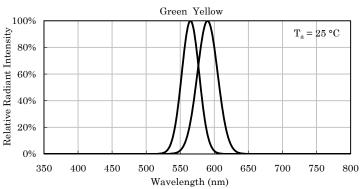
^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Nov 17,2018



Part Number: XNN1LUGY86M

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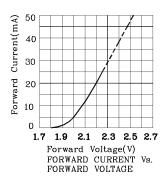


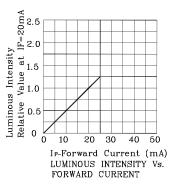


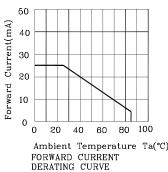
Relative Intensity Vs. CIE Wavelength

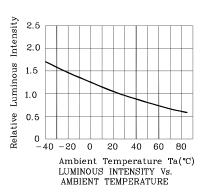
$T_a = 25$ °C 1.0 60 0.5 0.0 15° 30° 45° 60° 75° 90° Spatial Distribution

Green

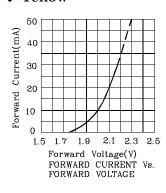


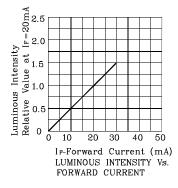


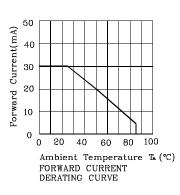


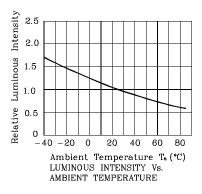


Yellow

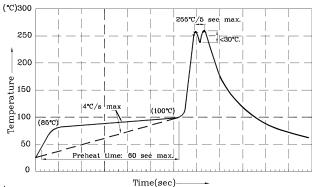








Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



- 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).
- 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:

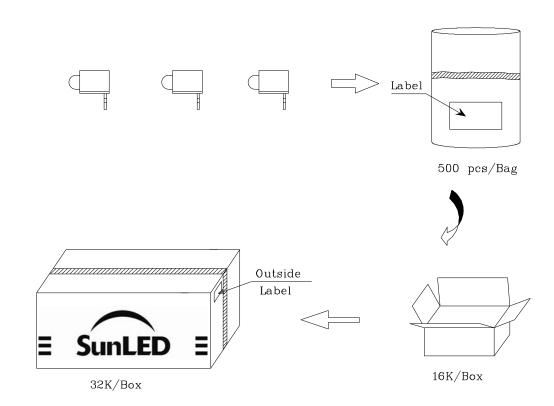
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

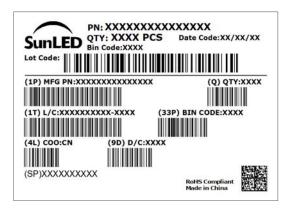
Note: Accuracy may depend on the sorting parameters.





PACKING & LABEL SPECIFICATIONS





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XDSA2767 V10-Z Layout: Maggie L.