SunLED
www.SunLEDusa.com

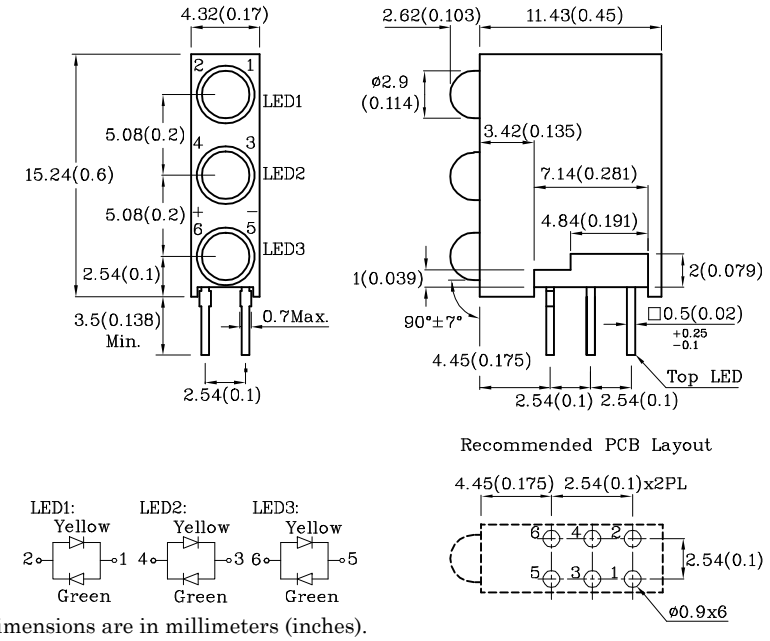
Part Number: XPZ3LUYG37M

3 mm Three 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
- Halogen-free
- RoHS compliant

Package Schematics



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

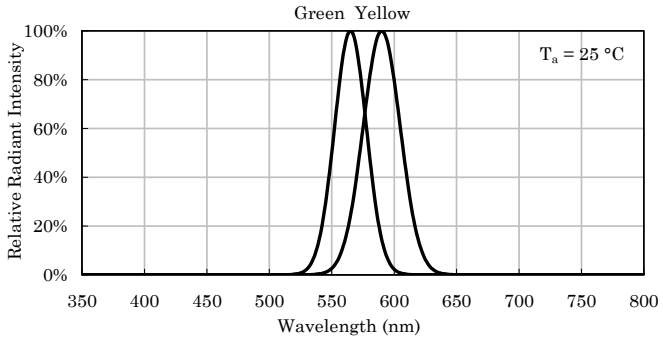
Absolute Maximum Ratings (T_A=25°C)		**Yellow (GaAsP/ GaP)**	**Green (GaP)**	**Unit**
Forward Current	I_F	30	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	140	140	mA
Power Dissipation	P_D	75	62.5	mW
Operating Temperature	T_A	-40 ~ +85		˚C
Storage Temperature	Tstg	-40 ~ +85		
Lead 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)

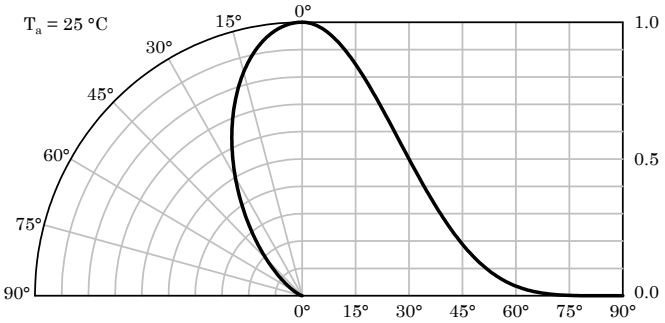
Operating Characteristics (T_A=25°C)		**Yellow (GaAsP/ GaP)**	**Green (GaP)**	**Unit**
Forward Voltage (Typ.) (I_F=20mA)	V_F	2.1	2.2	V
Forward Voltage (Max.) (I_F=20mA)	V_F	2.5	2.5	V
Wavelength of Peak Emission CIE127-2007* (Typ.) (I_F=20mA)	λP	590*	565*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I_F=20mA)	λD	588*	568*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I_F=20mA)	△λ	35	30	nm
Capacitance (Typ.) (V_F=0V, f=1MHz)	C	20	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I_F=20mA) mcd min.	Luminous Intensity CIE127-2007* (I_F=20mA) mcd typ.	Wavelength CIE127-2007* nm λP	Viewing Angle 2θ 1/2
XPZ3LUYG37M	Yellow	GaAsP/GaP	White Diffused	4*	7*	590*	60°
	Green	GaP		6*	13*	565*	

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

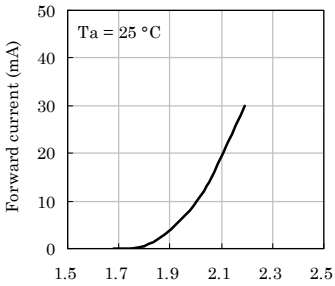


Relative Intensity Vs. CIE Wavelength

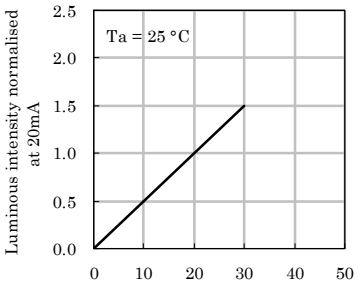


Spatial Distribution

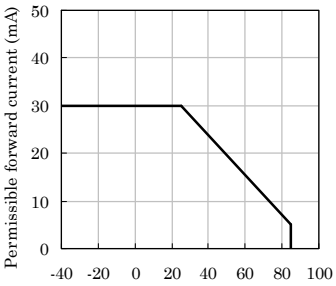
❖ Yellow



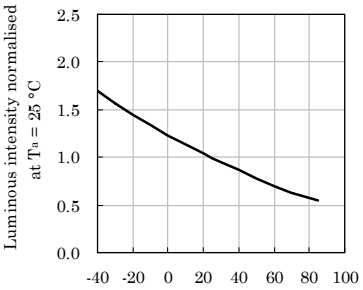
Forward voltage (V)
Forward Current vs.
Forward Voltage



Forward current (mA)
Luminous Intensity vs.
Forward Current

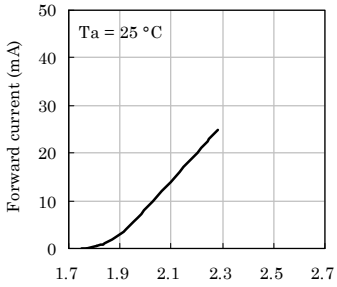


Ambient temperature (°C)
Forward Current
Derating Curve

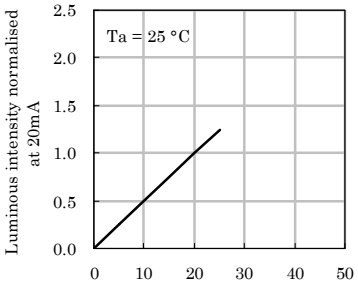


Ambient temperature (°C)
Luminous Intensity vs.
Ambient Temperature

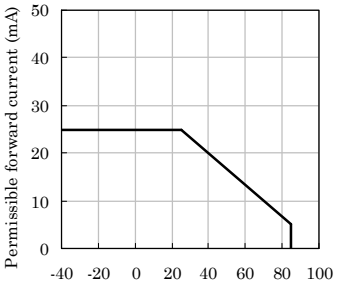
❖ Green



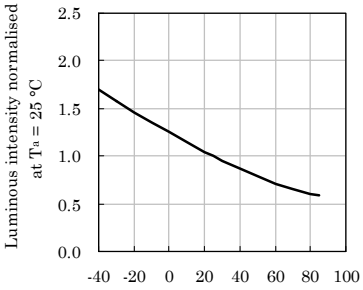
Forward voltage (V)
Forward Current vs.
Forward Voltage



Forward current (mA)
Luminous Intensity vs.
Forward Current

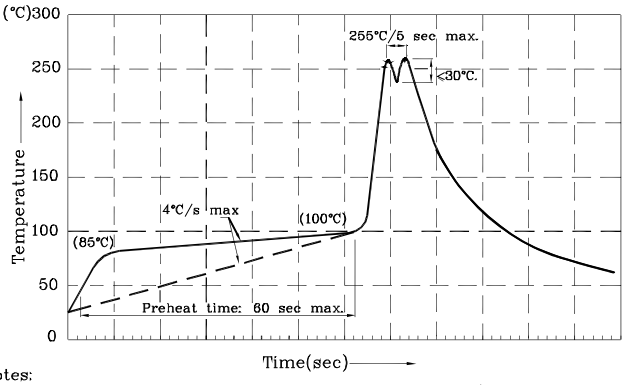


Ambient temperature (°C)
Forward Current
Derating Curve



Ambient temperature (°C)
Luminous Intensity vs.
Ambient Temperature

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

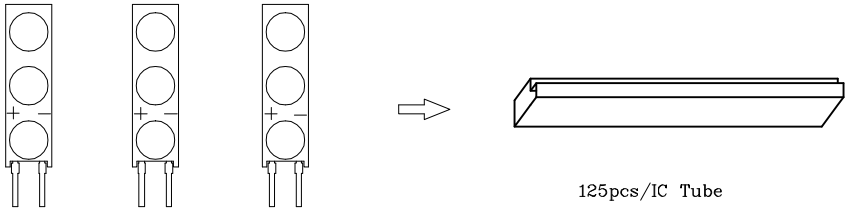


Notes:
1. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
2. Peak wave soldering temperature between 245°C ~ 255°C for 3 sec (5 sec max).
3. Do not apply stress 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.

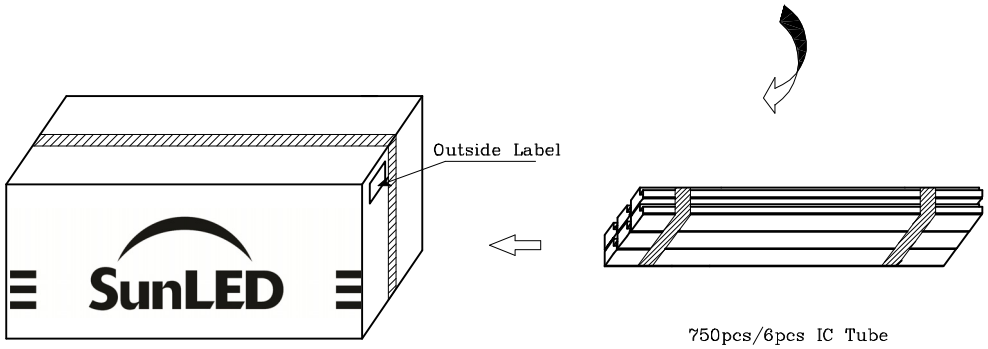
Remarks:

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

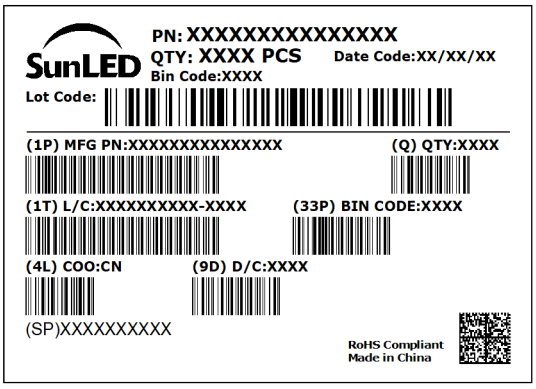


125pcs/IC Tube



750pcs/6pcs IC Tube

9K/Box



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