

Part Number: XLUG13D

2mm FLAT TOP LED LAMP

Features

- Radial / Through hole package
- Reliable & robust
- Low power consumption
- Available on tape and reel
- RoHS Compliant



Package Schematics
2.5(0.098) 8(0.315) 27(1.063)Min. 3.5(0.138) 1.5(0.059)±1 Cathode $0.7Max. \Box 0.5(0.02)\pm0.25$ $0.9x^2$ $0.9x^2$
Notes: 1. All dimensions are in millimeters (inches). 2. Talaranas is 10.25(0.01)) unless atherwise noted

- 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)	Green (GaP)	Unit			
Reverse Voltage	V_{R}	5	V		
Forward Current	$I_{\rm F}$	25	mA		
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	140	mA		
Power Dissipation	\mathbf{P}_{D}	62.5	mW		
Operating Temperature	T_A $-40 \sim +85$		°C		
Storage Temperature	Tstg	$-40 \sim +85$	-0		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds				
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds				

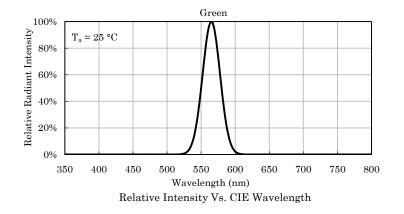
A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

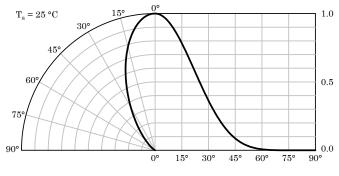
Operating Characteristics (T _A =25°C)		Green (GaP)	Unit
Forward Voltage (Typ.) (I _F =10mA)	$V_{\rm F}$	2	V
Forward Voltage (Max.) (I _F =10mA)	$V_{\rm F}$	2.4	V
Reverse Current (Max.) $(V_R=5V)$	I_R	10	uA
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =10mA)	λP	565*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) (I _F =10mA)	λD	568*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	$ riangle\lambda$	30	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =10mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XLUG13D	Green	GaP	Green Diffused	6*	11*	565*	50°

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

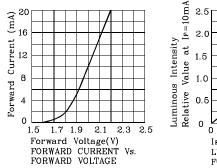


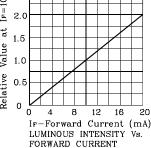


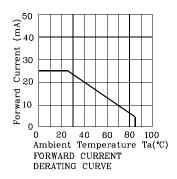


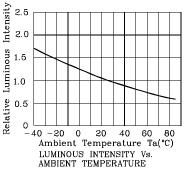
Spatial Distribution

Green

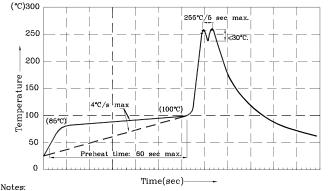








Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



I.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

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 process.

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:

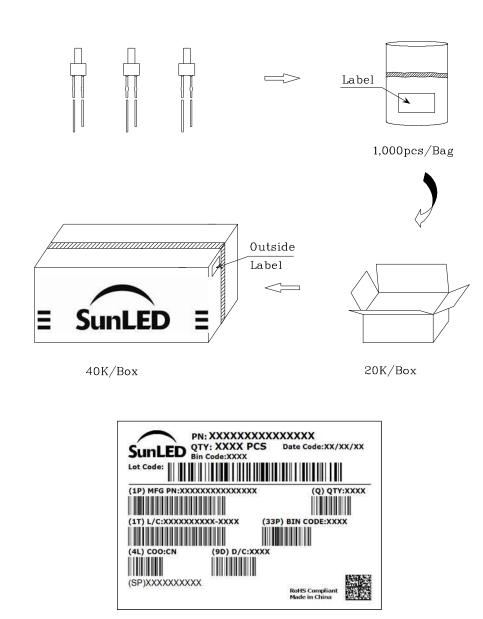
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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PACKING & LABEL SPECIFICATIONS



TERMS OF USE

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- 2. Contents within this document are subject to improvement and enhancement changes without notice.
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