

T-1 (3mm) Solid State Lamp

Features

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







ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Package Schematics $4.6(0.181)\pm0.3$ 27(1.063)Min. 1(0.039) $1.5(0.059)\pm1$ ø2.9(0.114) ø3.2(0.126) 2.54(0.1) ø2.8(0.11) 0.7Max. □0.5(0.02) 1.0Max. 5.1(0.201)±0.5 Recommended PCB Layout Yellow 2.54(0.1)

Ø0.9x2

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 $(T_A=25^{\circ}C)$		Green (AlGaInP)	Yellow (AlGaInP)	Unit	
Forward Current	I_{F}	30	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	150	175	mA	
Power Dissipation	P_{D}	75	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 (AlGaInP)	Yellow (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	2.1	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)	λΡ	574*	590*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	570*	590*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	20	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	20	рF

Part Number		Emitting Color	Emitting Material	Lens-color	$\begin{array}{c} Luminous\ Intensity \\ CIE127\text{-}2007* \\ (I_F\text{=}20\text{mA}) \\ mcd \end{array}$		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
					min.	typ.		
XLVGMYK37M —	Green	AlGaInP	White Diffused -	40*	79*	574*	60°	
	Yellow	AlGaInP	- winte Dilluseu	80*	228*	590*		

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

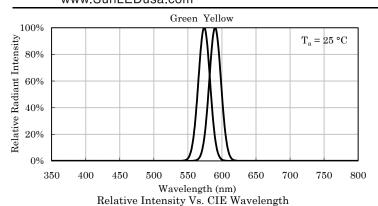
Mar 06,2023 XDSB9398 V2-Z Layout: Maggie L.

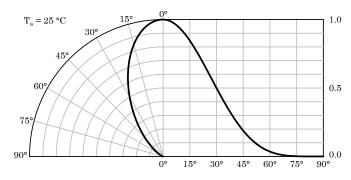


Part Number: XLVGMYK37M

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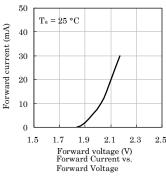


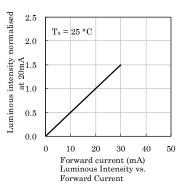


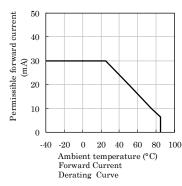


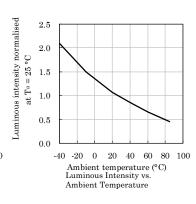
Spatial Distribution

Green

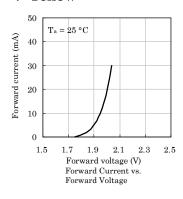


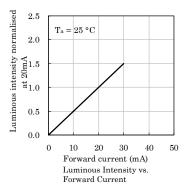


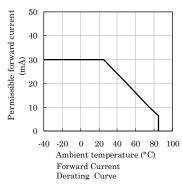


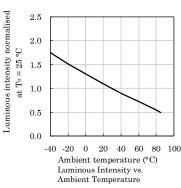


Yellow

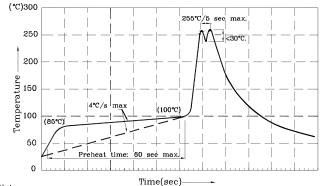








Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



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

1. The reldering temperature between 245°C ~ 255°C for 3 sec

2.Peak wave soldering temperature between 245°C \sim 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

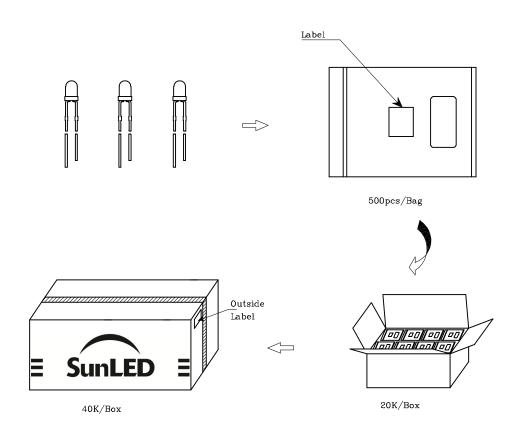
Note: Accuracy may depend on the sorting parameters.

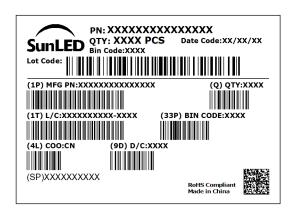
Mar 06,2023





PACKING & LABEL SPECIFICATIONS





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Mar 06,2023