

T-1 (3mm) SOLID STATE LAMP

Features

- Radial / Through hole package
- \bullet Reliable & robust
- Low power consumption
- Available on tape and reel
- 5V internal resistor.
- RoHS Compliant







Dec 21,2013

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Package Schematics $4.6(0.181)\pm0.3$ 27(1.063)MIN. 1(0.039) $1.5(0.059)\pm1$ ø3.2(0.126) RECOMMENDED PCB LAYOUT CATHODE 2.54(0.1) ø2.9(0.114) 2.54 $\square 0.5(0.02)^{+0.26}_{-0.1}$ ø2.8(0.11) 0.7MAX. ø0.889−2 1.0MAX. $5.4(0.213)\pm0.5$

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)		VG (AlGaInP)	Unit		
Reverse Voltage	V_{R}	5	V		
Forward Voltage	V_{F}	6	V		
Power Dissipation	P_{D}	85	mW		
Operating Temperature	T_{A}	T _A -40 ~ +70			
Storage Temperature	Tstg	-40 ~ +85	°C		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds				
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds				

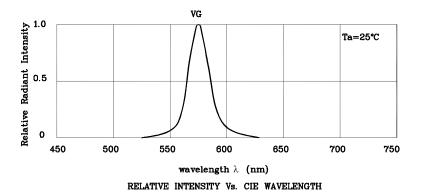
Operating Characteristics (T _A =25°C)		VG (AlGaInP)	Unit
Forward Current (Typ.) $(V_F=5V)$	I_{F}	11.5	mA
Forward Current (Max.) (V _F =5V)	I_{F}	17.5	mA
Reverse Current (Max.) $(V_R=5V)$	I_R	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (V _F =5V)	λP	574*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (V _F =5V)	λD	570*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (V _F =5V)	$\triangle \lambda$	20	nm

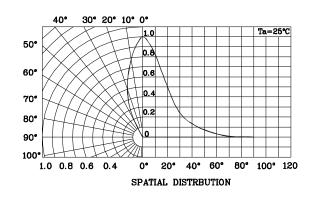
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* $(V_F=5V)$ mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XLVG11D5V	Green	AlGaInP	Green Diffused	30*	69*	574*	40°

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

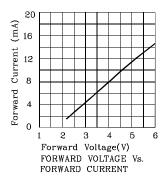


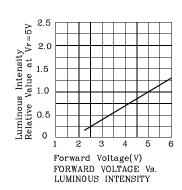


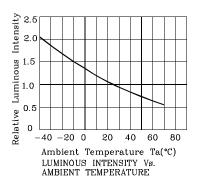




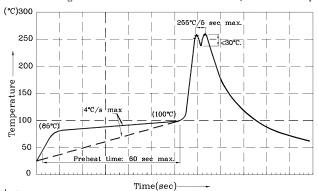
❖ VG







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



Notes: Notes. 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 $260^{\circ}C$ 2. Peak wave soldering temperature between $245^{\circ}C \sim 255^{\circ}C$ for 3 sec

(5 sec max).

3.Do not apply stress to the epoxy resin while the temperature is above $85\,^\circ\text{C}.$ 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 Luminous intensity/ luminous flux, or wavelength),

the typical accuracy of the sorting process is as follows:

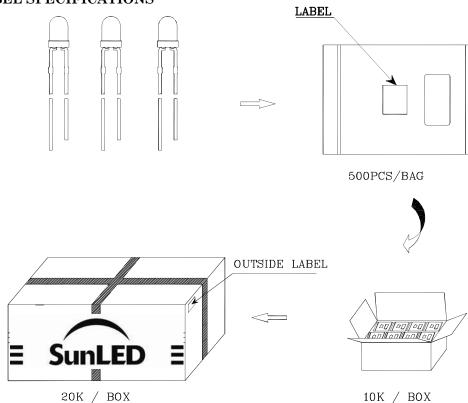
1. Wavelength: +/-1nm

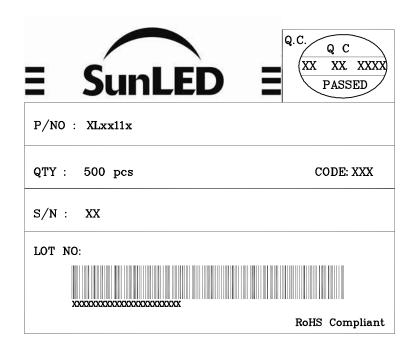
2. Luminous intensity/ luminous flux: +/-15%

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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