

T-1 3/4 (5mm) SOLID STATE LAMP

### **Features**

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.





#### 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 (TA=25°C)		US (GaAsP/GaP)	Unit	
Reverse Voltage	VR	5	V	
Forward Current	IF	25	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	145	mA	
Power Dissipation	Рт	62.5	mW	
Operating Temperature	TA	-40 ~ +85	0.0	
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			

	8.6(.339	27(1.063	)MIN.
Ø5.9(.232)		CATHO CATHO 0.7MAX.	0.05(0.03) DE (0.06) 1.)

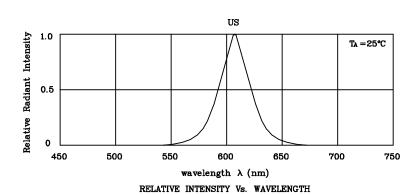
Operating Characteristics (TA=25°C)		US (GaAsP/GaP)	Unit
Forward Voltage (Typ.) (IF=10mA)	$V_{\rm F}$	1.95	V
Forward Voltage (Max.) (IF=10mA)	$V_{\rm F}$	2.5	V
Reverse Current (Max.) (VR=5V)	IR	10	uA
Wavelength Of Peak Emission (Typ.) (IF=10mA)	λΡ	607	nm
Wavelength Of Dominant Emission (Typ.) (IF=10mA)	λ D	610	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=10mA)	Δλ	35	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	С	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=10mA) mcd		Wavelength nm λ P	Viewing Angle 2 0 1/2
				min.	typ.		
LUS12D	Orange	GaAsP/GaP	Orange Diffused	12	29	607	30°
Published Date : M	IAR 22, 2008	Drawing N	Jo : SDSA1259	V4	Ch	ecked : B.L.LIU	P.1/4

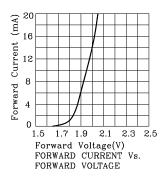


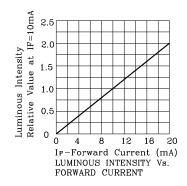


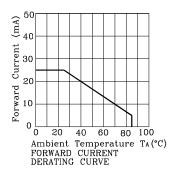
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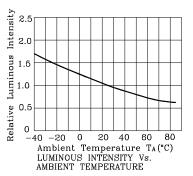


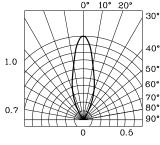
### **\$** US











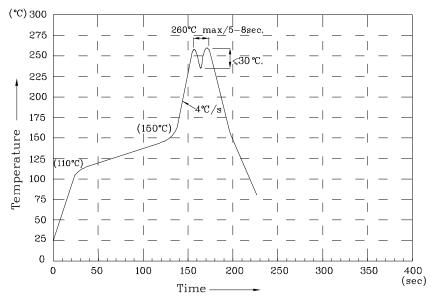
SPATIAL DISTRIBUTION

 $Published\ Date: MAR\ 22, 2008 \qquad \qquad Drawing\ No:\ SDSA1259 \qquad \qquad V4 \qquad \qquad Checked: B.L.LIU \qquad \qquad P.2/4$ 



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Wave Soldering Profile For Lead-free Through-hole LED.



### NOTES:

- 1.Recommend the wave temperature 245°C~260°C.The maximum soldering temperature should be less than 260°C.
- 2.Do not apply stress on epoxy resins when temperature is over 85 degree  $^{\circ}\text{C}.$
- 3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
- 4. No more than once.

#### 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.

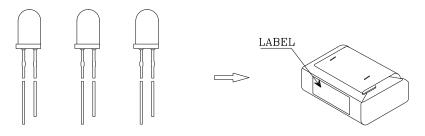
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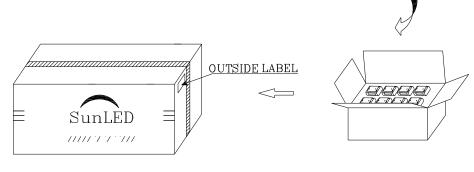
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# PACKING & LABEL SPECIFICATIONS

# LUS12D

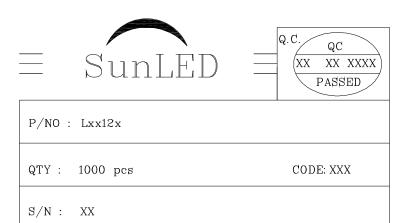


1000PCS/BAG



36K / BOX

18K / BOX



LOT NO:



RoHS Compliant

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