SunLED
www.SunLEDusa.com

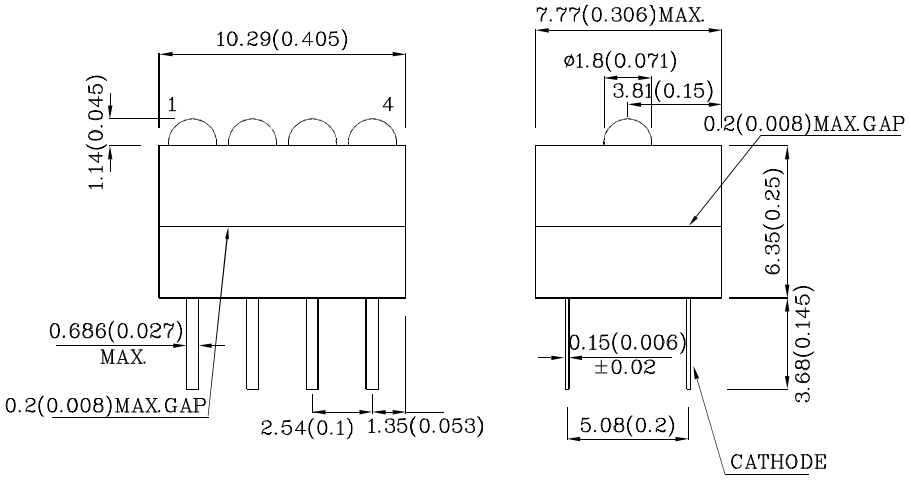
Part Number: XNG4ZUR46D5V

SUBMINIATURE SOLID STATE LAMP

Features

- Housing material: Type 66 Nylon
- Black casing provides superior contrast
- Housing UL rating: 94V-0
- Reliable & robust
- Custom color combinations available
- 5V internal resistor
- RoHS Compliant

Package Schematics

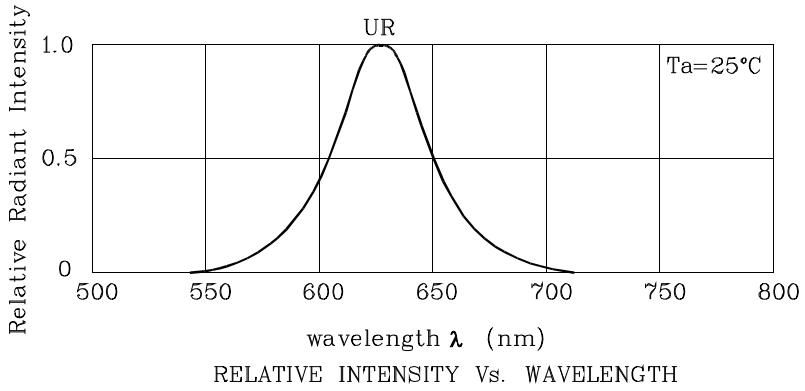


Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

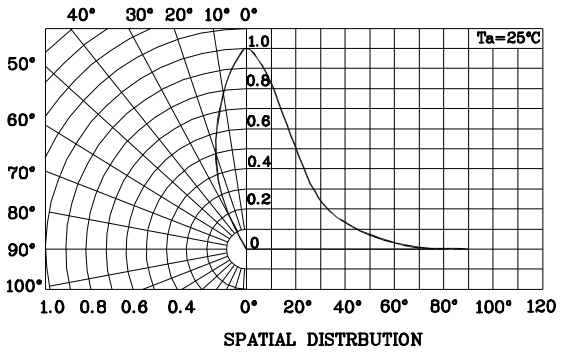
Absolute Maximum Ratings (T_A=25°C)		**UR (GaAsP/GaP)**	**Unit**
Reverse Voltage	V_R	5	V
Forward Voltage	V_F	6	V
Power Dissipation	P_D	85	mW
Operating Temperature	T_A	-40 ~ +70	°C
Storage Temperature	Tstg	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds		
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds		

Operating Characteristics (T_A=25°C)		**UR (GaAsP/GaP)**	**Unit**
Forward Current (Typ.) (V_F=5V)	I_F	13	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 (Typ.) (V_F=5V)	λP	627	nm
Wavelength of Dominant Emission (Typ.) (V_F=5V)	λD	625	nm
Spectral Line Full Width At Half-Maximum (Typ.) (V_F=5V)	△λ	45	nm

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (V_F=5V) mcd		Wavelength nm λP	Viewing Angle 2θ 1/2
				min.	typ.		
XNG4ZUR46D5V	Red	GaAsP/GaP	Red Diffused	4	11	627	40°

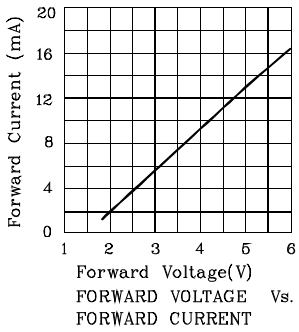


RELATIVE INTENSITY Vs. WAVELENGTH

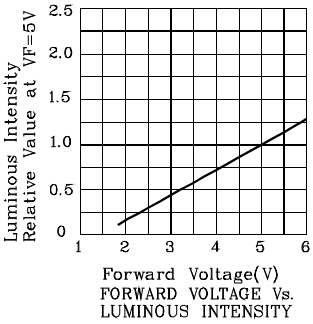


SPATIAL DISTRBUTION

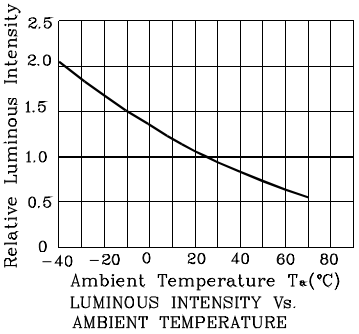
❖ UR



FORWARD VOLTAGE Vs. FORWARD CURRENT

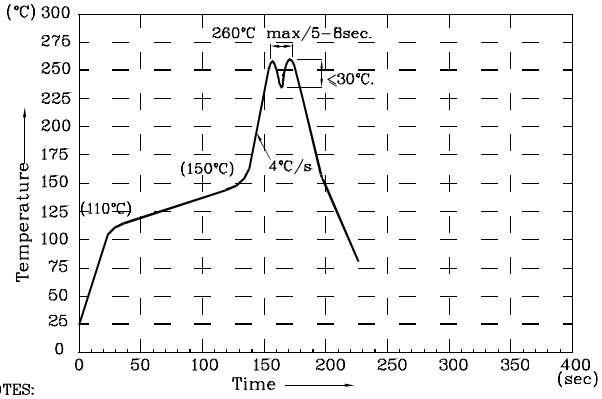


FORWARD VOLTAGE Vs. LUMINOUS INTENSITY



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

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



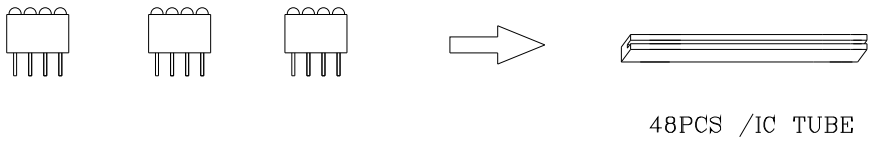
NOTES:

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°C.
3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
4. During wave soldering, the PCB top-surface temperature should be kept below 105°C.
5. No more than once.

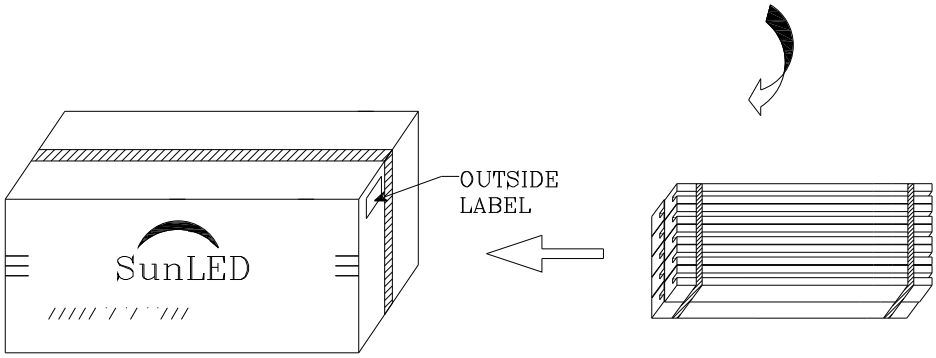
Remarks:

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.

PACKING & LABEL SPECIFICATIONS



48PCS /IC TUBE



10.56K/BOX

480pcs /10pcs IC TUBE