SunLED
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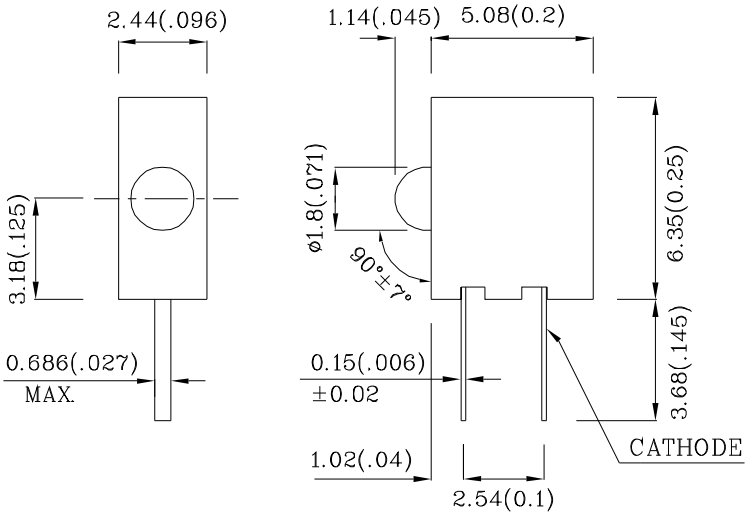
Part Number: **XNH1ZMR46D5V**

SUBMINIATURE SOLID STATE LAMP

Features

- BLACK CASE ENHANCES CONTRAST.
- VIBRATION AND SHOCK RESISTANT.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- 5V INTERNAL RESISTOR.
- RoHS COMPLIANT.



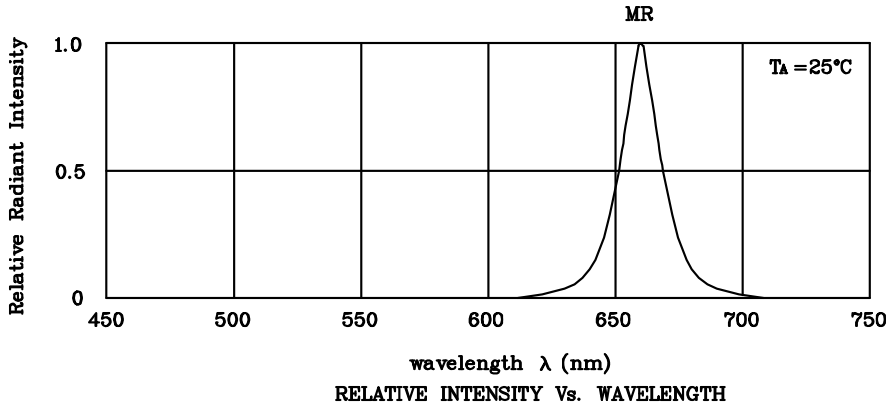
Notes:

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 (TA=25°C)		**MR (GaAlAs)**	**Unit**
Reverse Voltage	VR	5	V
Forward Voltage	VF	6	V
Power Dissipation	PT	85	mW
Operating Temperature	TA	-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		

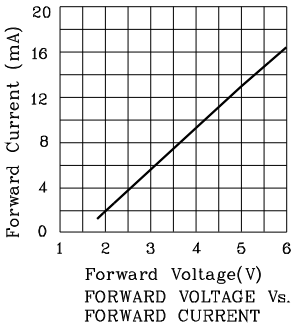
Operating Characteristics (TA=25°C)		**MR (GaAlAs)**	**Unit**
Forward Current (Typ.) (VF=5V)	IF	13	mA
Forward Current (Max.) (VF=5V)	IF	17.5	mA
Reverse Current (Max.) (VR=5V)	IR	10	uA
Wavelength of Peak Emission (Typ.) (VF=5V)	λ P	660	nm
Spectral Line Full Width At Half-Maximum (Typ.) (VF=5V)	λ D	640	nm
Spectral Line Half-Width (VF=5V) (Typ.)	Δλ	20	nm

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (V=5V) mcd		Wavelength nm λ P	Viewing Angle 2 θ 1/2
				min.	typ.		
XNH1ZMR46D5V	Red	GaAlAs	Red Diffused	40	148	660	40°

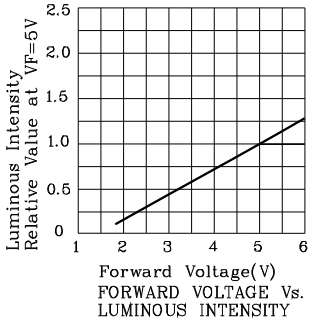


RELATIVE INTENSITY Vs. WAVELENGTH

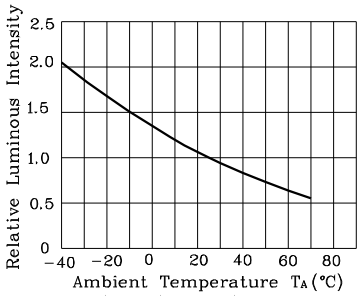
❖ **MR**



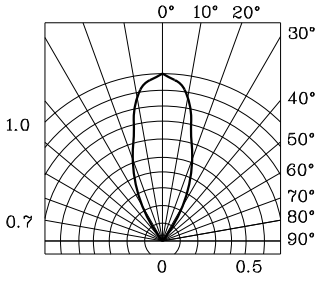
FORWARD VOLTAGE Vs.
FORWARD CURRENT



FORWARD VOLTAGE Vs.
LUMINOUS INTENSITY

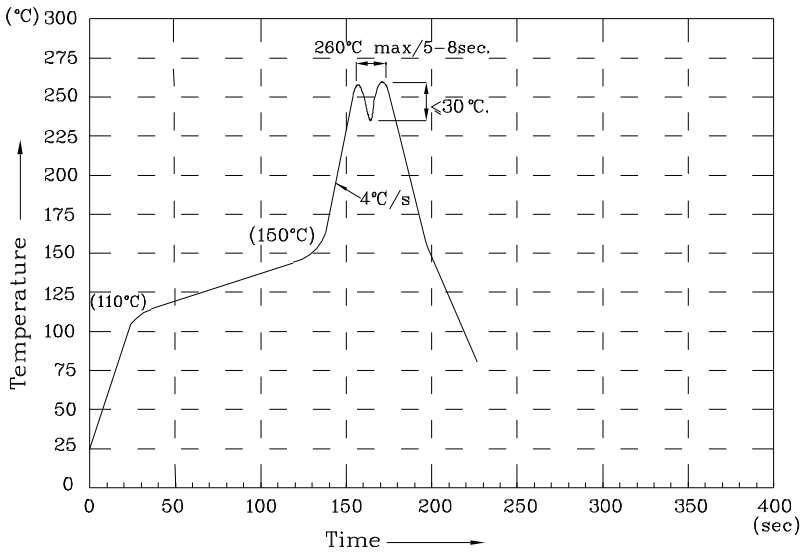


LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION

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



NOTES:

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

Remarks:

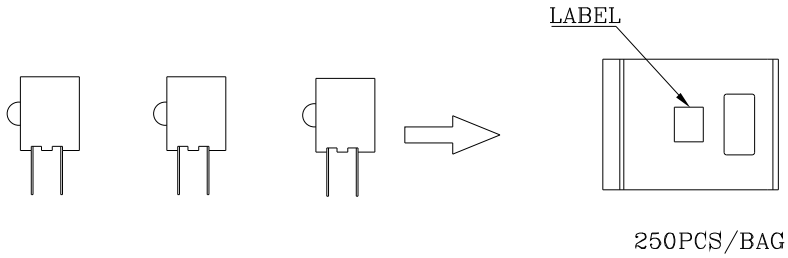
If special sorting is required (e.g. binning based on luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm

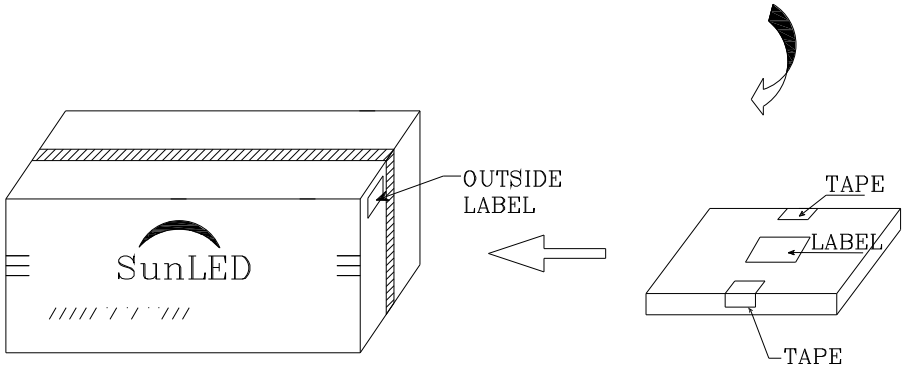
2. Luminous Intensity / Luminous Flux: +/-15%

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS XNH1ZMR46D5V



250PCS/BAG



32K/ BOX 1K/Box