SunLED
www.SunLEDusa.com

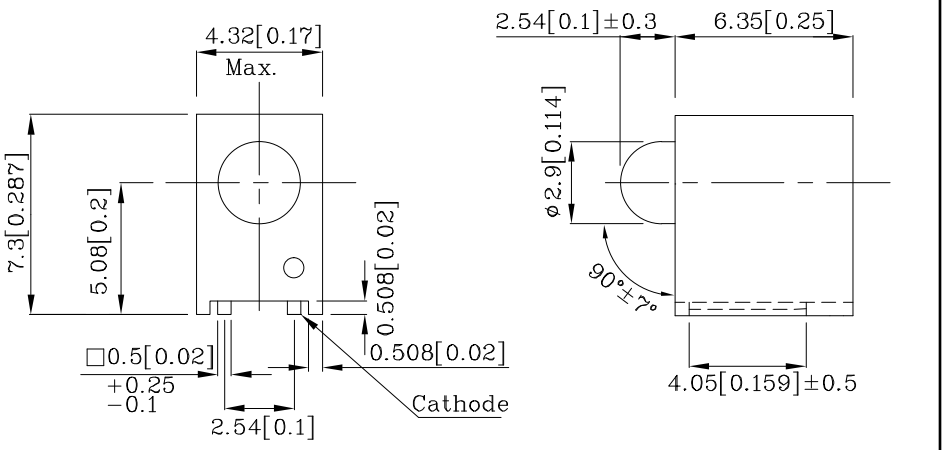
Part Number: XNK1LUR11DSMD

3mm One Position SMD CBI Housing

Features

- Black casing provides superior contrast
- Reliable & robust
- Standard Package: 500pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- Housing UL rating:94V-0.
- Housing material: PPA
- High temperature resistant housing.
- High glass transition temperature epoxy.
- 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.

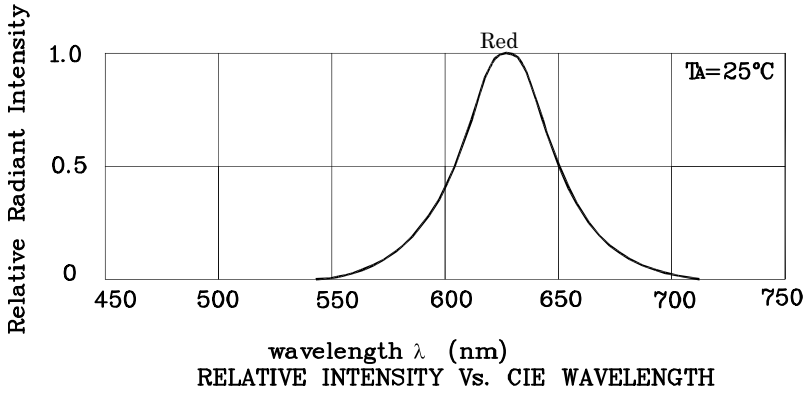
Absolute Maximum Ratings (T_A=25°C)		**Red (GaAsP/GaP)**	**Unit**
Reverse Voltage	V_R	5	V
Forward Current	I_F	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	160	mA
Power Dissipation	P_D	75	mW
Operating Temperature	T_A	-40 ~ +85	˚C
Storage Temperature	Tstg	-40 ~ +85	

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)

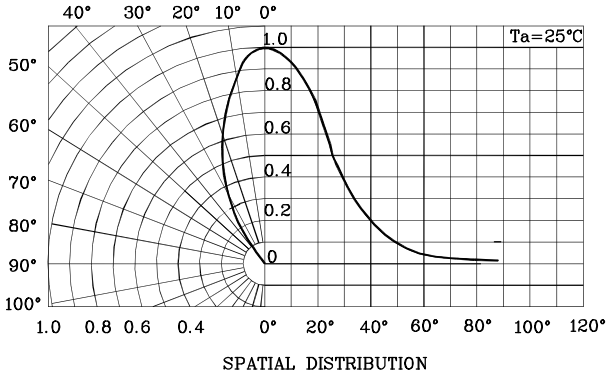
Operating Characteristics (T_A=25°C)		**Red (GaAsP/GaP)**	**Unit**
Forward Voltage (Typ.) (I_F=10mA)	V_F	1.9	V
Forward Voltage (Max.) (I_F=10mA)	V_F	2.5	V
Reverse Current (Max.) (V_R=5V)	I_R	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I_F=10mA)	λP	627*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I_F=10mA)	λD	617*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I_F=10mA)	△λ	45	nm
Capacitance (Typ.) (V_F=0V, f=1MHz)	C	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I_F=10mA) mcd min.	Luminous Intensity CIE127-2007* (I_F=10mA) mcd typ.	Wavelength CIE127-2007* nm λP	Viewing Angle 2θ 1/2
XNK1LUR11DSMD	Red	GaAsP/GaP	Red Diffused	12 10*	29 19*	627*	50°

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

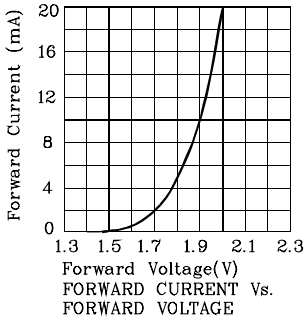


RELATIVE INTENSITY Vs. CIE WAVELENGTH

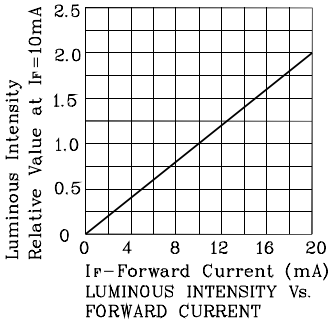


SPATIAL DISTRIBUTION

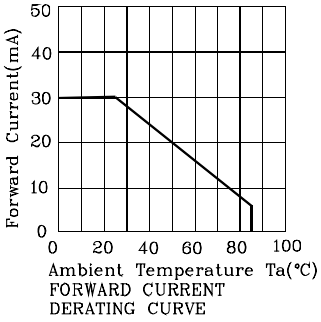
❖ Red



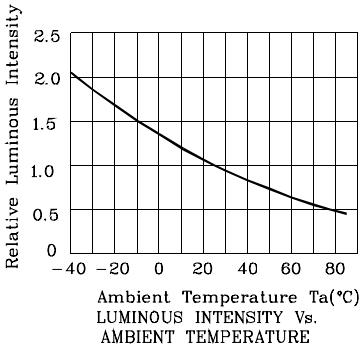
FORWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT

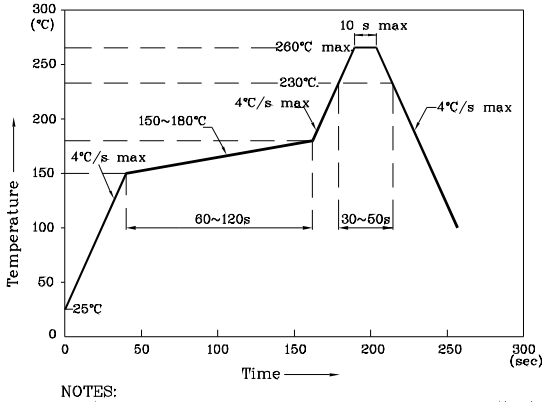


FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

Reflow Soldering Profile for SMD Products (Pb-Free Components)

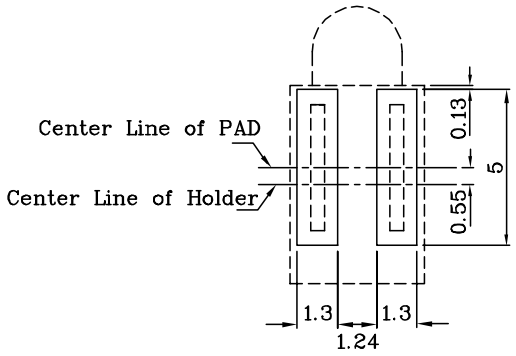


NOTES:
1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. No more than once.

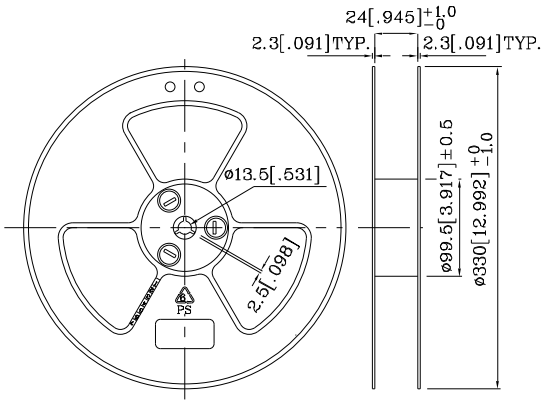
Remarks:

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.

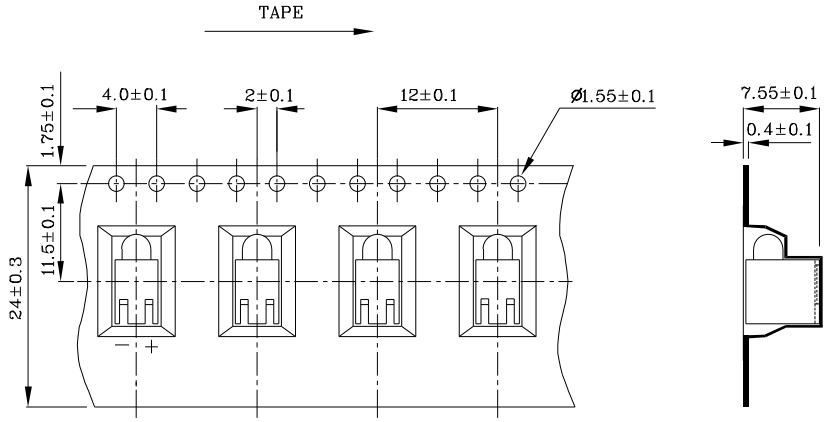
❖ **Recommended Soldering Pattern**
(Units: mm ; Tolerance: ± 0.1)



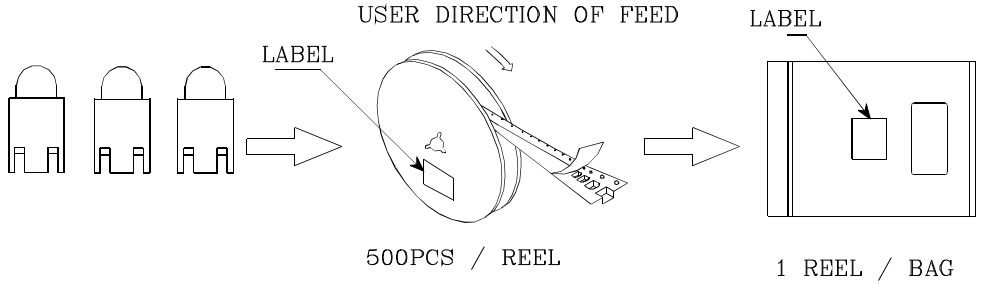
❖ **Reel Dimension**

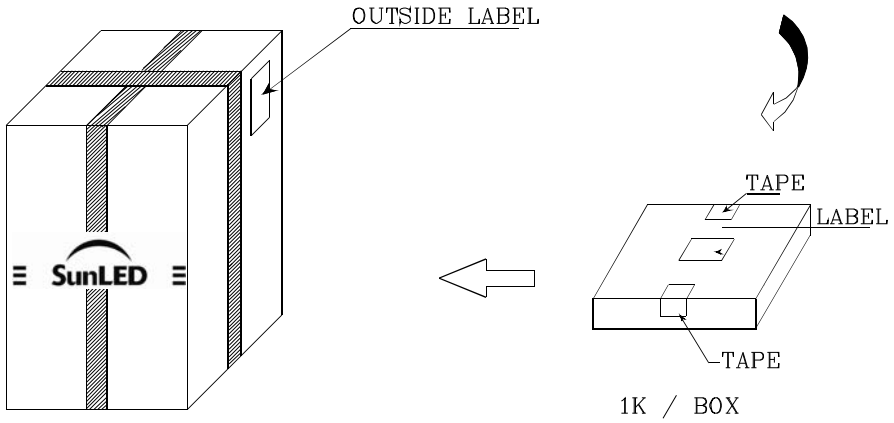


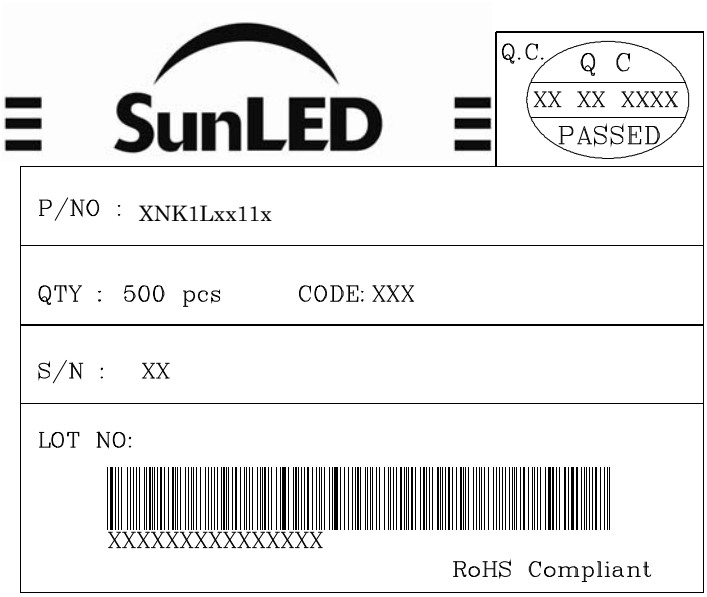
❖ **Tape Specification (Units : mm)**



PACKING & LABEL SPECIFICATIONS







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