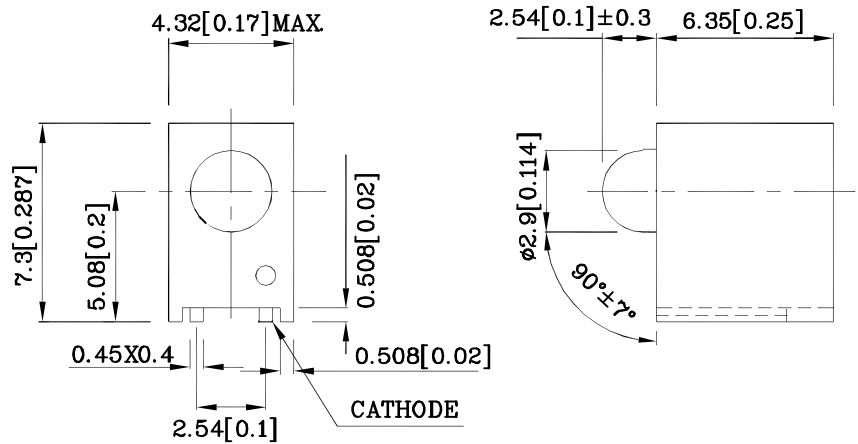


Features

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



Package Schematics



Notes:

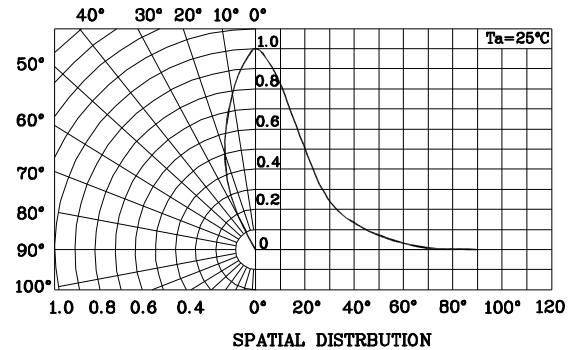
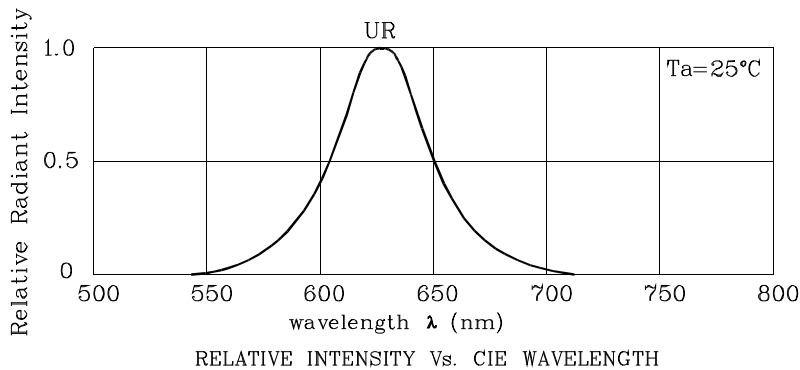
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
3. Specifications are subject to change without notice.

Absolute Maximum Ratings (TA=25°C)		UR (GaAsP/GaP)	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Forward Current (peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	160	mA
Power Dissipation	PD	75	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	

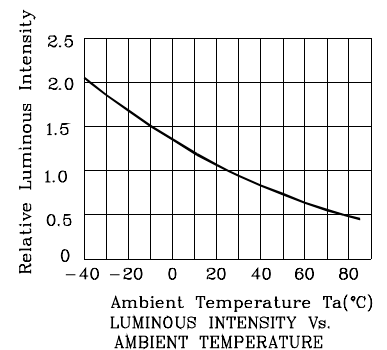
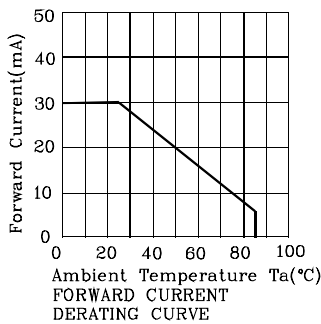
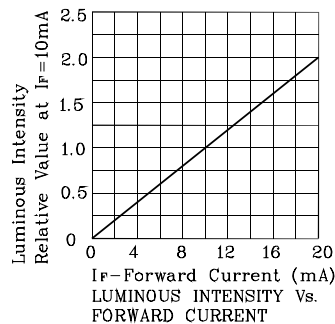
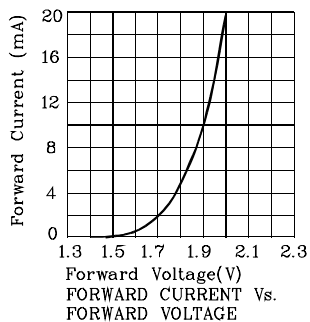
Operating Characteristics (T _A =25°C)		UR (GaAsP/GaP)	Unit
Forward Voltage (Typ.) (I _F =10mA)	V _F	1.9	V
Forward Voltage (Max.) (I _F =10mA)	V _F	2.5	V
Reverse Current (Max.) (V _R =5V)	I _R	10	uA
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =10mA)	λ P	627 627*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) (I _F =10mA)	λ D	625 617*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	Δλ	45	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (If=10mA)mcd		Wavelength CIE127-2007* λ P nm	Viewing Angle 2 θ 1/2
				min.	typ.		
XNK1LUR147DSMD	Red	GaAsP/GaP	Red Diffused	12	24	627*	40°
				6*	12*		

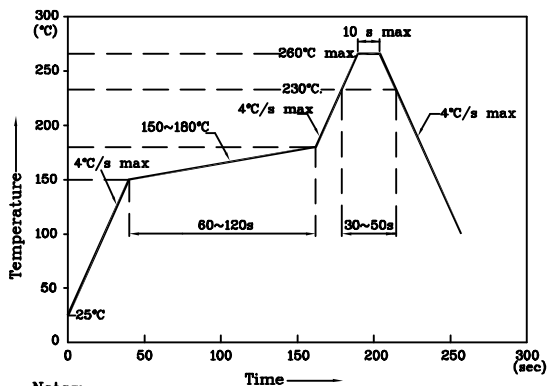
*Intensity intensity value and wavelength are in accordance with CIE127-2007 standards.



❖ UR

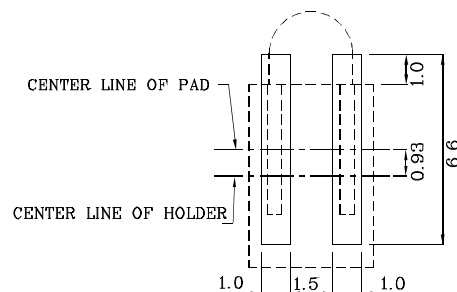


Reflow Soldering Profile for SMD Products (Pb-Free Components)



- Notes:
1. Maximum soldering temperature should not exceed 260°C
 2. Recommended reflow temperature: 145°C-260°C
 3. Do not put stress to the epoxy resin during high temperatures conditions

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



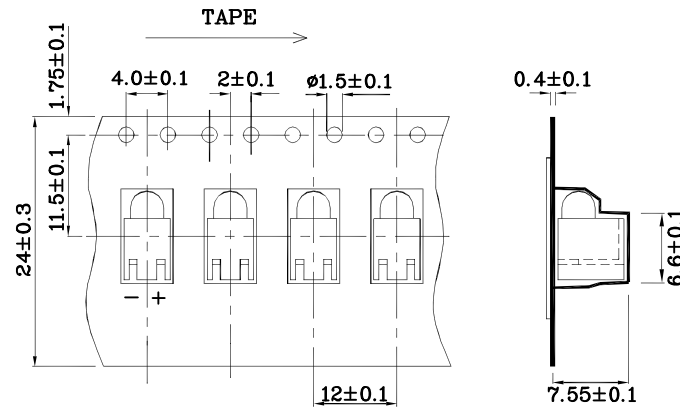
Remarks:

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:

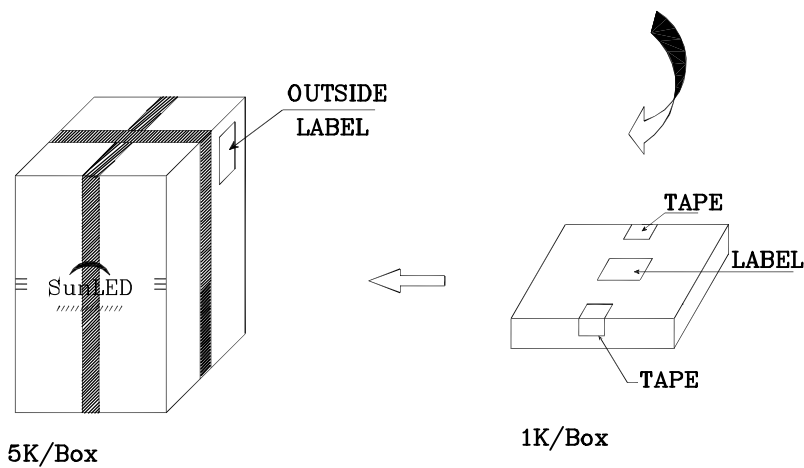
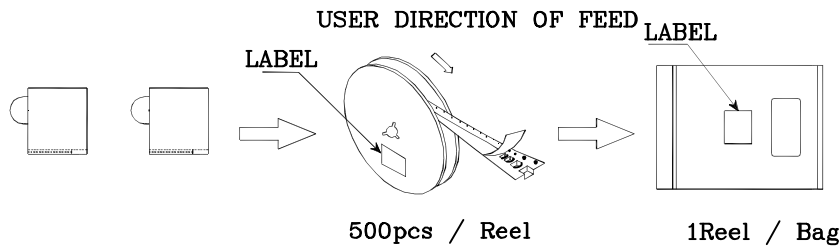
1. Wavelength: +/-1nm
2. Luminous intensity / luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

❖ Tape Specification (Units : mm)



PACKING & LABEL SPECIFICATIONS



P/NO : XNK1Lxx147x		
QTY : 500 pcs	CODE: XXX	
S/N : XX		
LOT NO:		
RoHS Compliant		