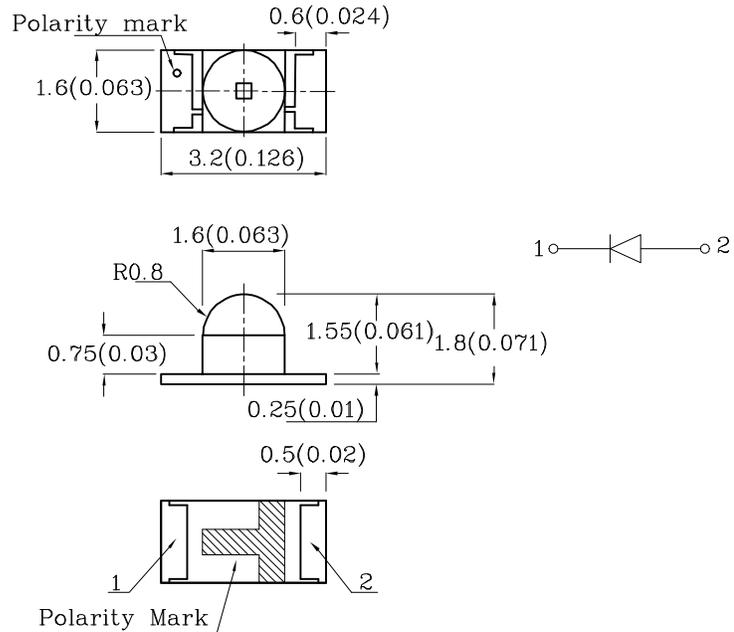


Features

- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- RoHS compliant



Package Schematics



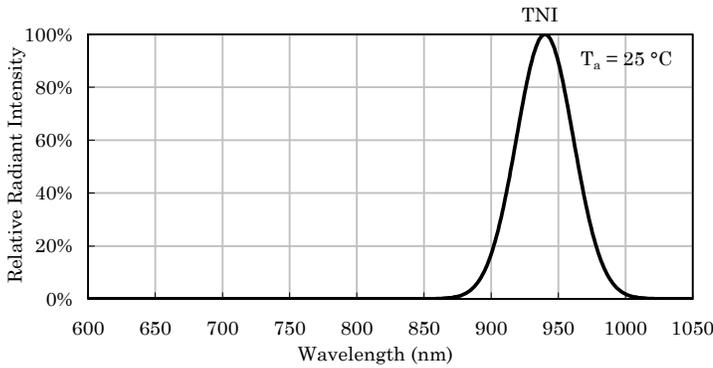
Absolute Maximum Ratings (T _A =25°C)		TNI (GaAs)	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	50	mA
Forward Current (Peak) 1/100 Duty Cycle 10us Pulse Width	i _{FS}	1200	mA
Power Dissipation	P _D	90	mW
Operating Temperature	T _A	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +85	

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)

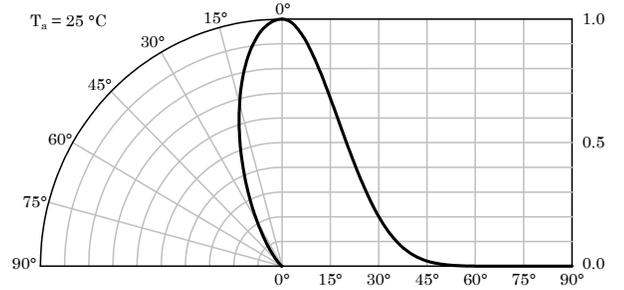
Operating Characteristics (T _A =25°C)		TNI (GaAs)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	1.2	V
Forward Voltage (Max.) (I _F =20mA)	V _F	1.6	V
Reverse Current (Max.) (V _R =5V)	I _R	10	µA
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =20mA)	λ _P	940*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	50	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	90	pF

Part Number	Emitting Material	Lens-color	Radiant Intensity CIE127-2007* (P _O =mW/sr) @20mA		Wavelength CIE127-2007* nm λ _P	Viewing Angle 2θ 1/2
			min.	typ.		
XZTNI55W-3	GaAs	Water Clear	5 2*	9 4.8*	940*	40°

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

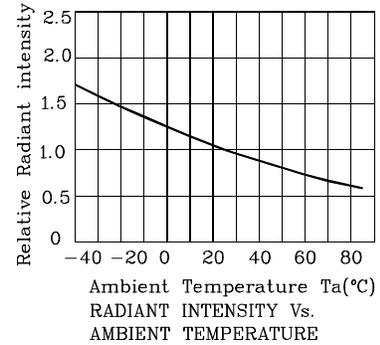
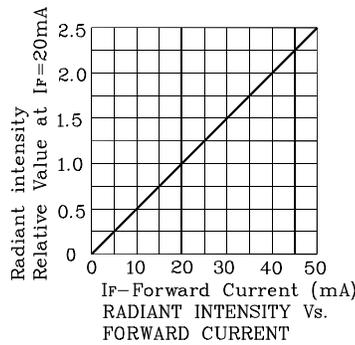
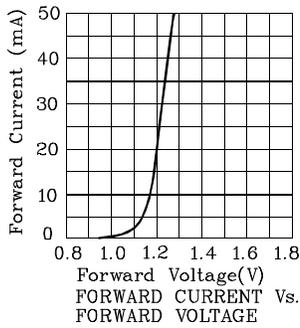


Relative Intensity Vs. CIE Wavelength



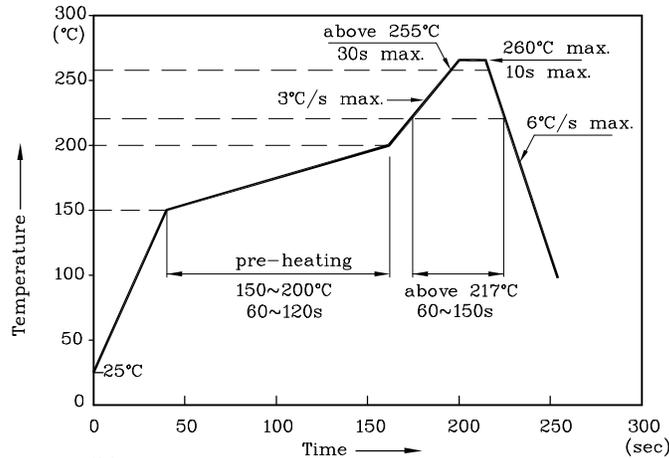
Spatial Distribution

❖ TNI



LED is recommended for reflow soldering and soldering profile is shown below.

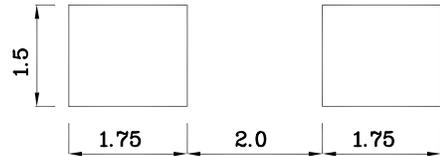
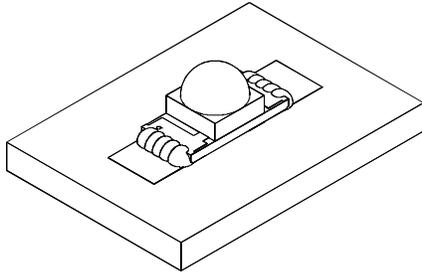
Reflow Soldering Profile for SMD Products (Pb-Free Components)



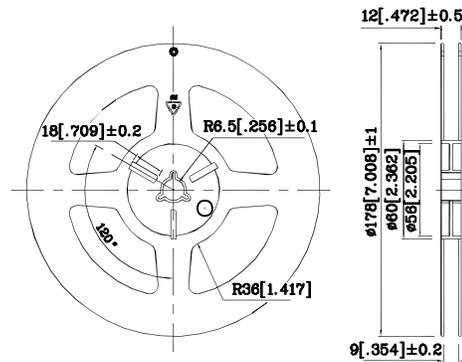


❖ The device has a single mounting surface.
The device must be mounted according to the specifications.

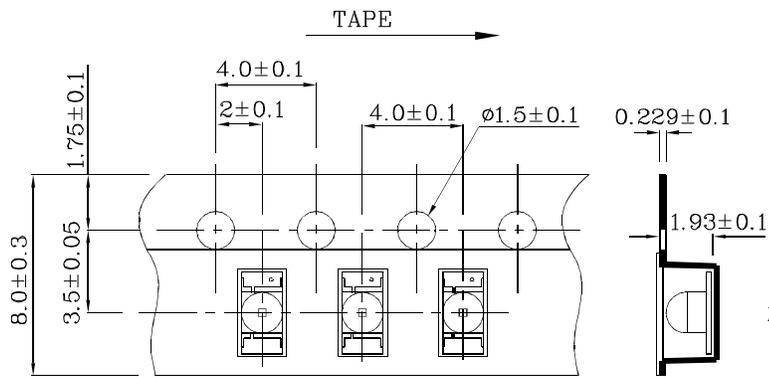
❖ Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)



❖ Reel Dimension



❖ Tape Specification (Units : mm)



Remarks:

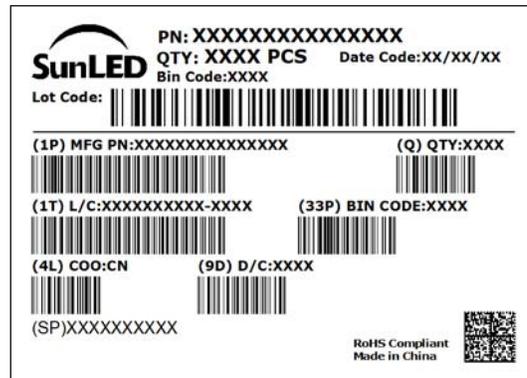
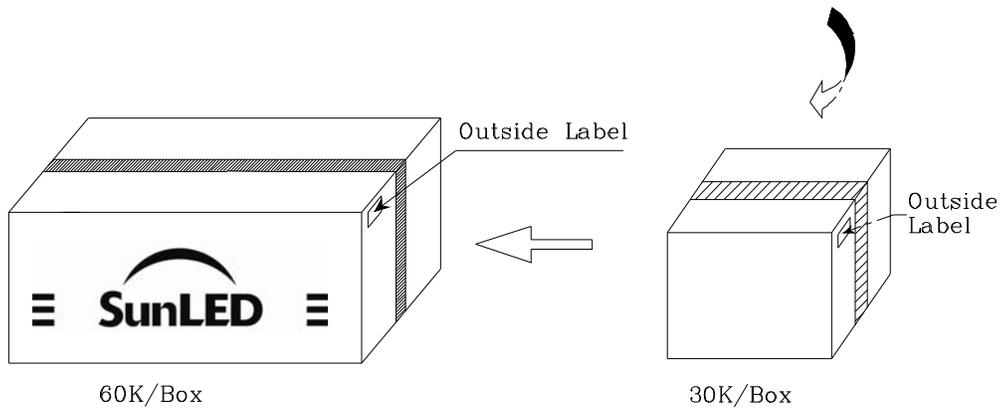
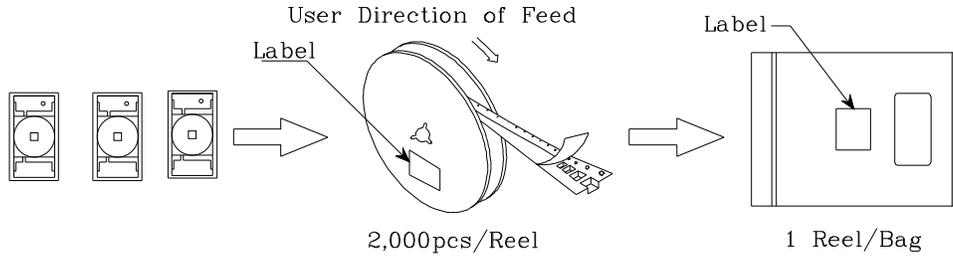
If special sorting is required (e.g. binning based on forward voltage or radiant intensity / luminous flux), the typical accuracy of the sorting process is as follows:

1. Radiant Intensity / Luminous Flux: $\pm 15\%$
2. Forward Voltage: $\pm 0.1V$

Note: Accuracy may depend on the sorting parameters



PACKING & LABEL SPECIFICATIONS



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