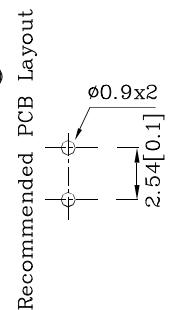
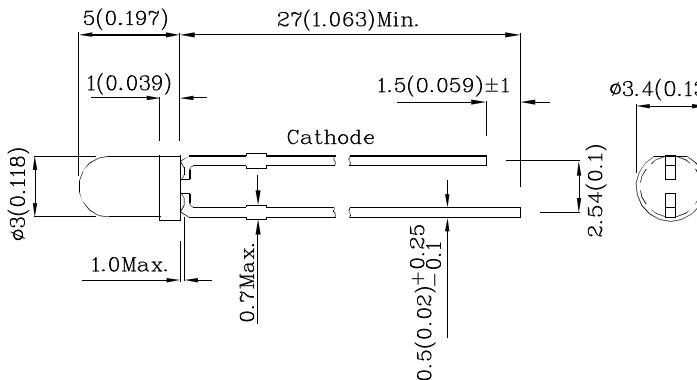


Features

- Radial / Through hole package
- Reliable & robust
- Low power consumption
- Available on tape and reel
- 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 ($T_A=25^\circ C$)		TNI (GaAs)	Unit	
Reverse Voltage	V_R	5	V	
Forward Current	I_F	50	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	1200	mA	
Power Dissipation	P_D	80	mW	
Operating Temperature	T_A	-40 ~ +85	$^\circ C$	
Storage Temperature	T_{STG}	-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			

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)

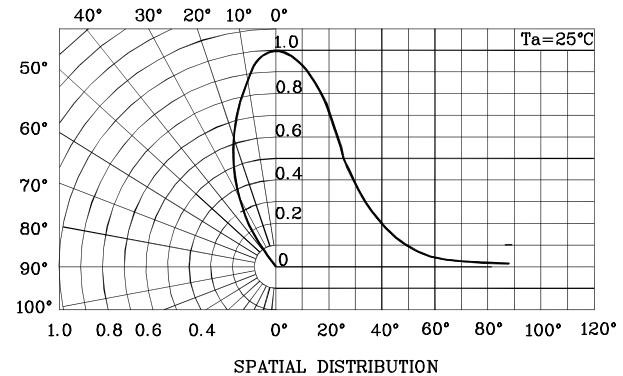
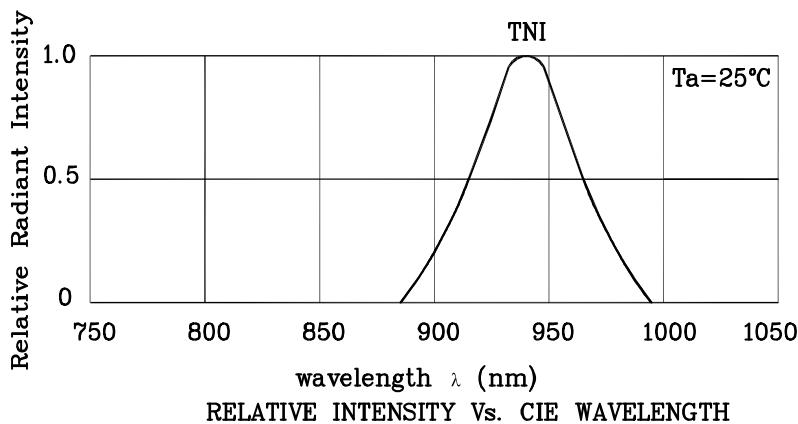
Operating Characteristics ($T_A=25^\circ C$)		TNI (GaAs)	Unit
Forward Voltage (Typ.) ($I_F=20mA$)	V_F	1.2	V
Forward Voltage (Max.) ($I_F=20mA$)	V_F	1.6	V
Reverse Current (Max.) ($V_R=5V$)	I_R	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) ($I_F=20mA$)	λ_P	940*	nm
Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=20mA$)	$\Delta\lambda$	50	nm
Capacitance (Typ.) ($V_F=0V, f=1MHz$)	C	90	pF

Part Number Emitting Material Lens-color

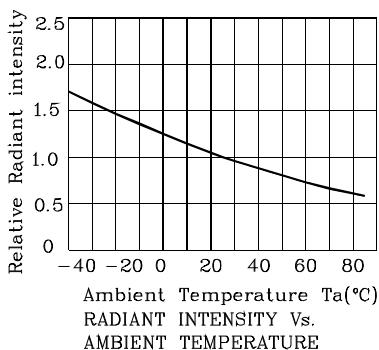
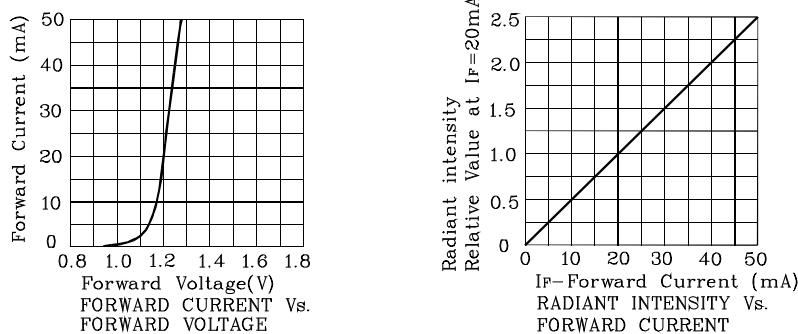
Radiant Intensity CIE127-2007* Radiant Intensity CIE127-2007* Wavelength CIE127-2007* Viewing Angle
Po=mW/sr Po=mW/sr nm 20 1/2
@20mA @50mA λ_P

Part Number	Emitting Material	Lens-color	min.	typ.	min.	typ.	Viewing Angle 20 1/2
			8	11	18	31	
XTNI30W	GaAs	Water Clear	8	11	18	31	940*
			3*	7*	8*	14*	50°

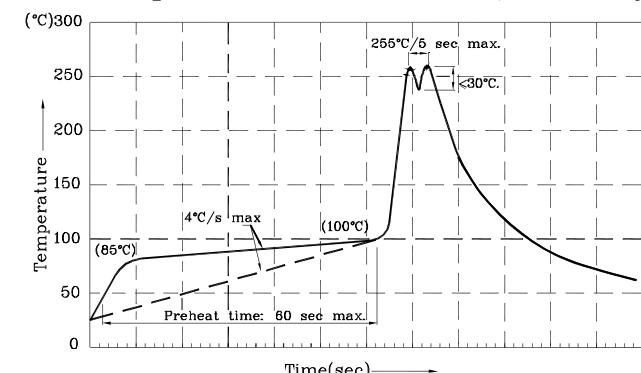
*Radiant intensity value and wavelength are in accordance with CIE127-2007 standards.



❖ TNI



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



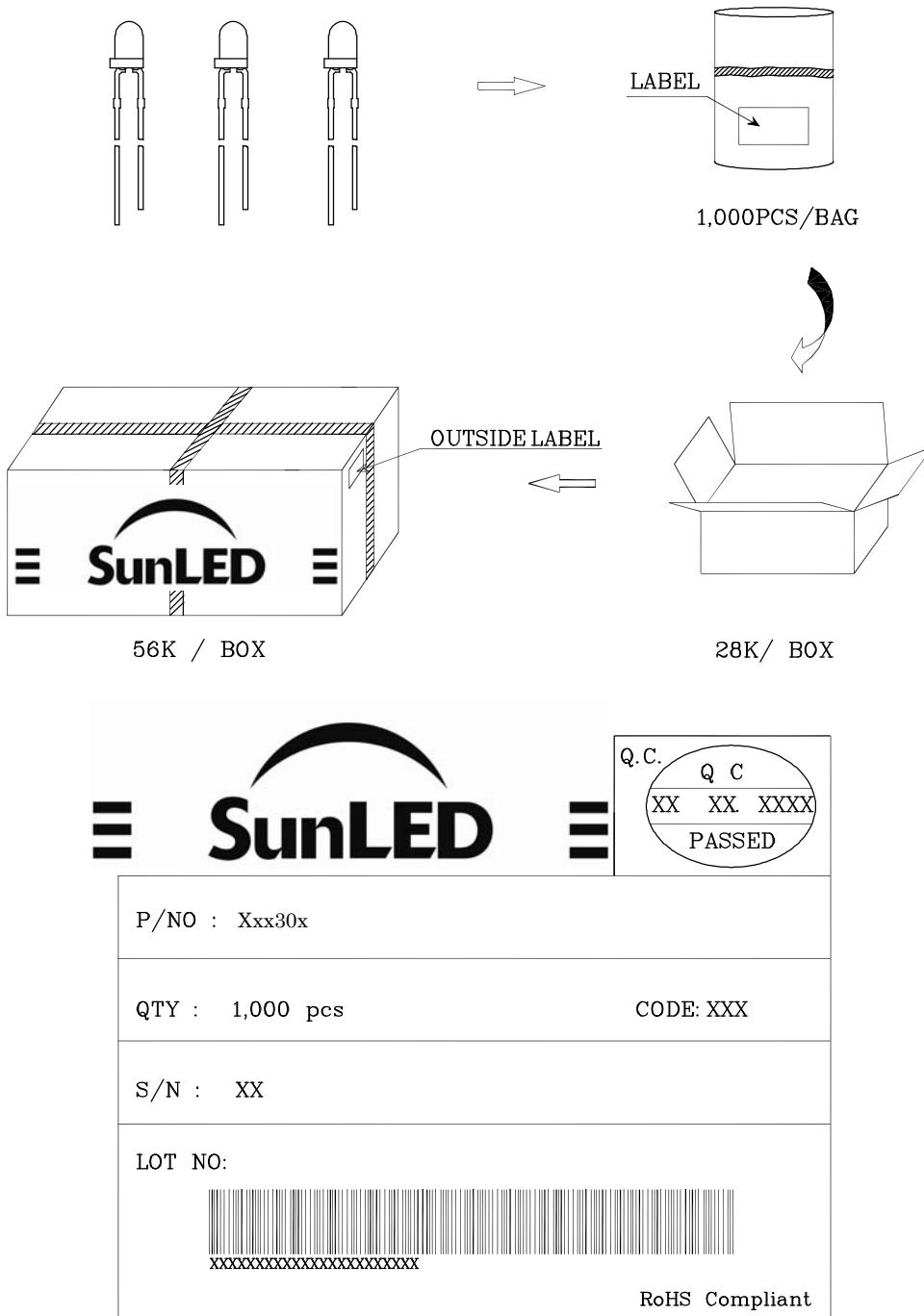
Remarks:

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

1. Radiant Intensity / Luminous Flux: +/-15%
2. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS



TERMS OF USE

1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
2. Contents within this document are subject to improvement and enhancement changes without notice.
3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet. User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
4. The product(s) described in this document are intended for electronic applications in which a person's life is not reliant upon the LED. Please consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
5. The contents within this document may not be altered without prior consent by SunLED.
6. Additional technical notes are available at <http://www.SunLEDusa.com/TechnicalNotes.asp>