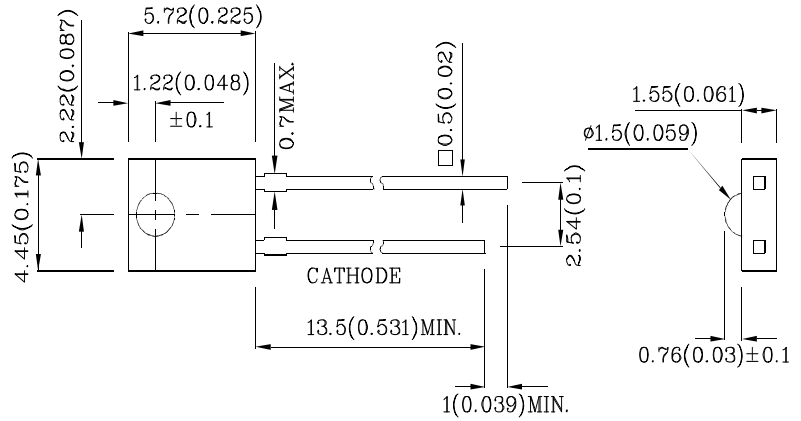


**Features**

- Radial / Through hole package
- Reliable & robust
- Low power consumption
- RoHS Compliant



**Package Schematics**



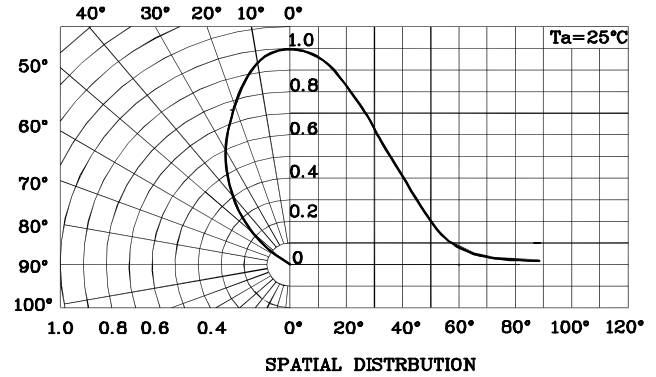
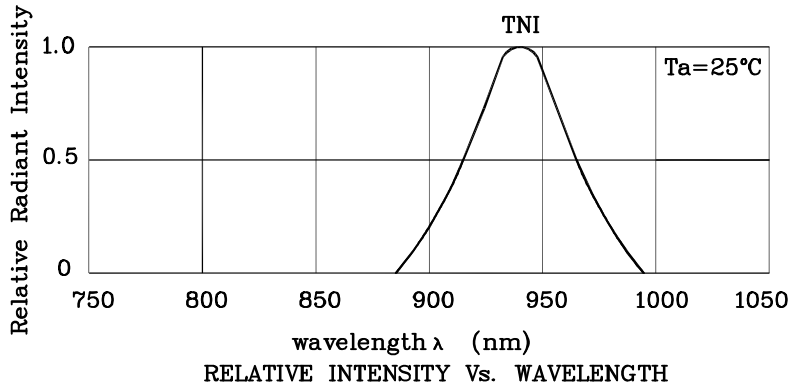
Notes:

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.

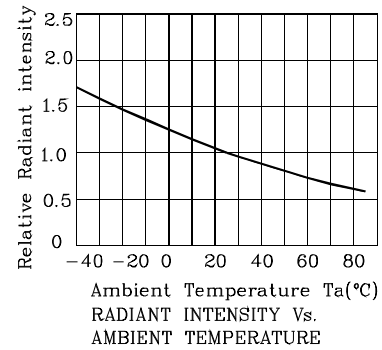
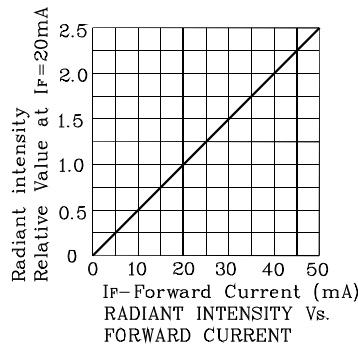
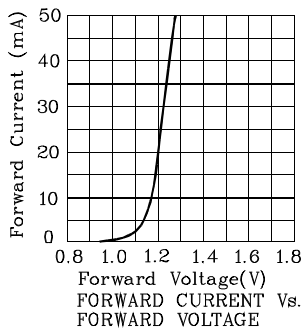
Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ )		TNI (GaAs)	Unit
Reverse Voltage	$V_R$	5	V
Forward Current	$I_F$	50	mA
Forward Current (Peak) 1/100 Duty Cycle 10us Pulse Width	$i_{FS}$	1200	mA
Power Dissipation	$P_D$	80	mW
Operating Temperature	$T_A$	-40 ~ +85	°C
Storage Temperature	$T_{stg}$	-40 ~ +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		

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

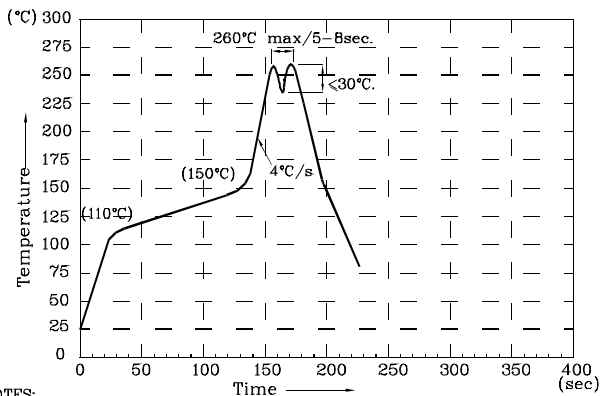
Part Number	Emitting Material	Lens-color	Radiant Intensity ( $P_o=\text{mW/sr}$ ) @20mA		Wavelength nm $\lambda_P$	Viewing Angle 20 1/2
			min.	typ.		
XTNI04W	GaAs	Water Clear	3	6	940	70°



❖ TNI



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



NOTES:

1. Recommend the wave temperature 245°C~260°C. The maximum soldering temperature should be less than 260°C.
2. Do not apply stress on epoxy resins when temperature is over 85°C.
3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
4. During wave soldering, the PCB top-surface temperature should be kept below 105°C.
5. No more than once.

Remarks:

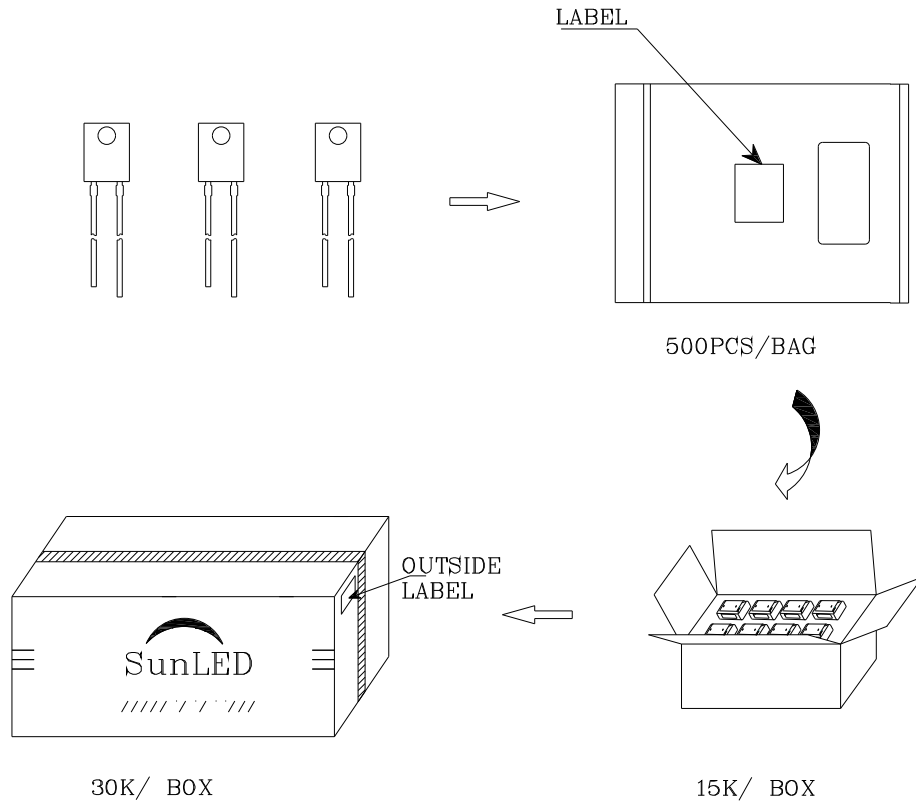

If special sorting is required (e.g. binning based on forward voltage or radiant intensity / luminous flux),



the typical accuracy of the sorting process is as follows:

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

Note: Accuracy may depend on the sorting parameters

**PACKING & LABEL SPECIFICATIONS**

		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Q.C.</td> </tr> <tr> <td style="text-align: center;">Q</td> <td style="text-align: center;">C</td> </tr> <tr> <td style="text-align: center;">XX</td> <td style="text-align: center;">XX. XXXX</td> </tr> <tr> <td colspan="2" style="text-align: center;">PASSED</td> </tr> </table>	Q.C.		Q	C	XX	XX. XXXX	PASSED	
Q.C.										
Q	C									
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PASSED										
P/NO : Xxx04x										
QTY : 500 pcs		CODE: XXX								
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RoHS Compliant										