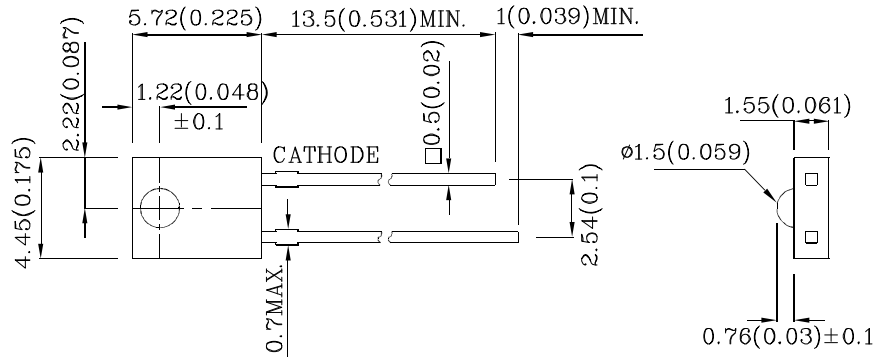


Features

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



Package Schematics



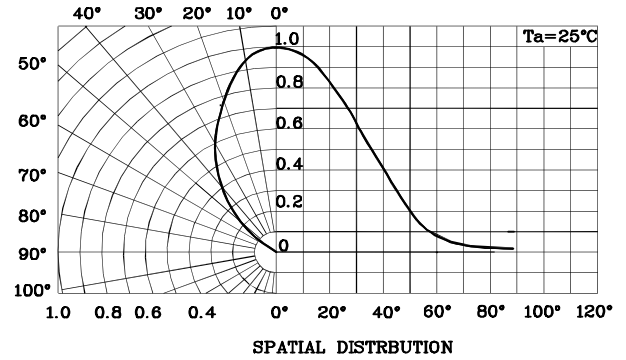
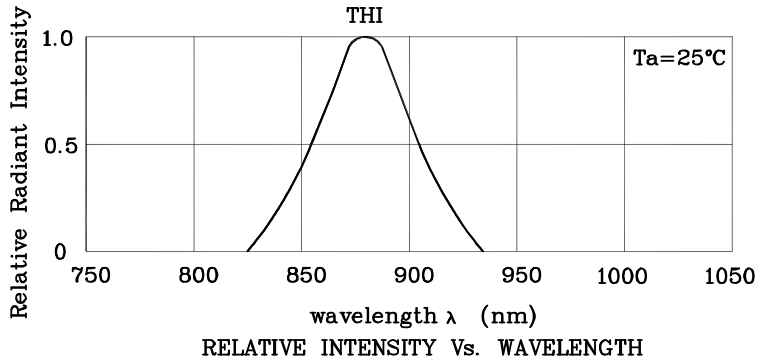
Notes:

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.

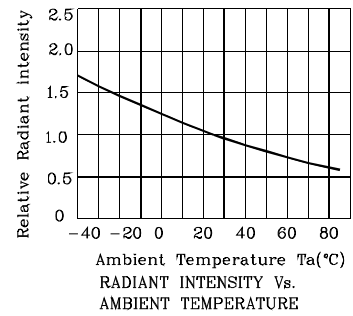
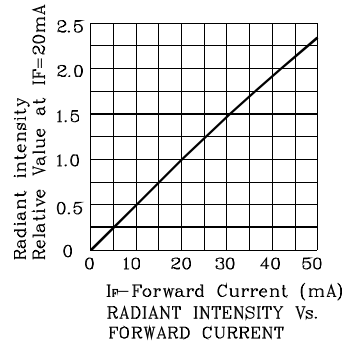
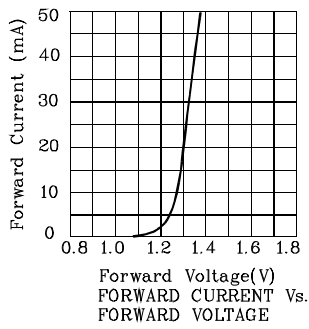
Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)		THI (GaAlAs)	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	50	mA
Forward Current (Peak) 1/100 Duty Cycle 10us Pulse Width	i_{FS}	1200	mA
Power Dissipation	P_D	80	mW
Operating Temperature	T_A	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +85	
Lead 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 ($T_A=25^\circ\text{C}$)		THI (GaAlAs)	Unit
Forward Voltage (Typ.) ($I_F=20\text{mA}$)	V_F	1.3	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	μA
Wavelength of Peak Emission (Typ.) ($I_F=20\text{mA}$)	λ_P	880	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

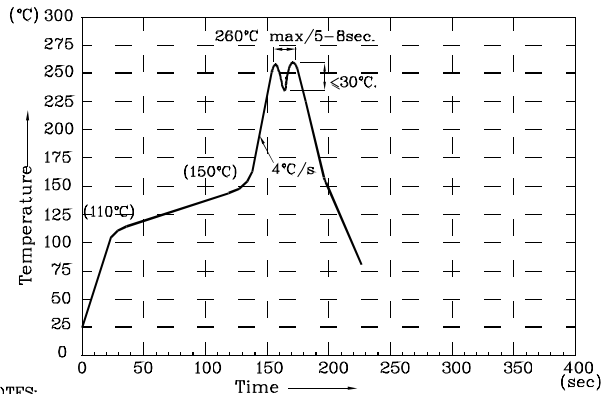
Part Number	Emitting Material	Lens-color	Radiant Intensity ($P_o=\text{mW/sr}$) @20mA		Wavelength nm λ_P	Viewing Angle 2 θ 1/2
			min.	typ.		
XTHI04W	GaAlAs	Water Clear	2	3.8	880	70°



❖ THI



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:

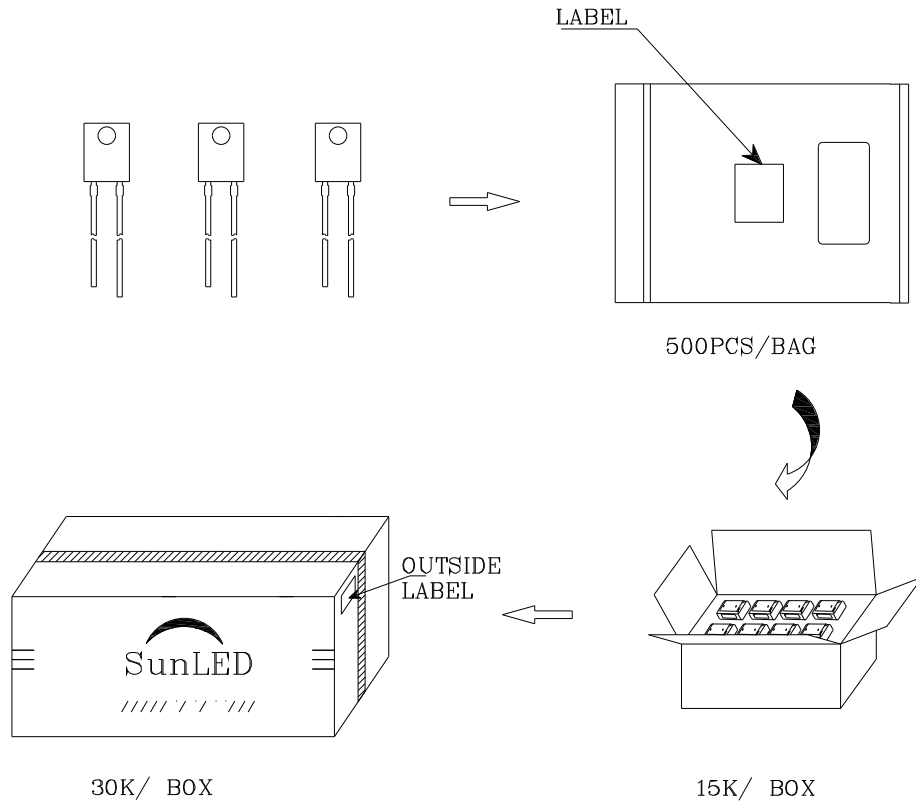

If special sorting is required (e.g. binning based on forward voltage or radiant intensity / luminous flux),



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										
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RoHS Compliant										