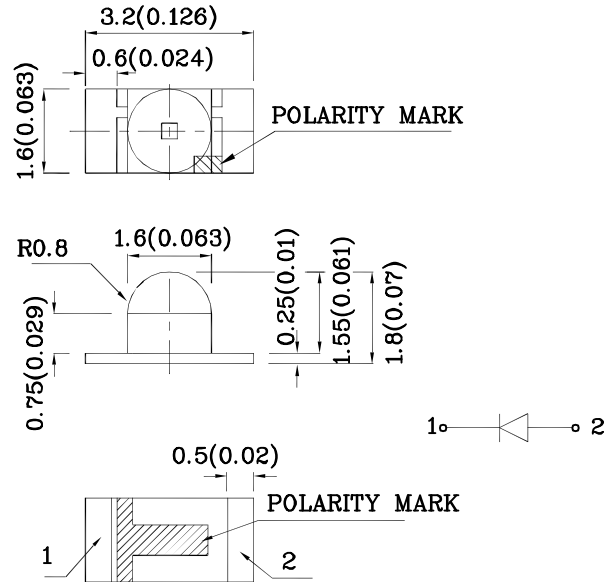


Features

- Long life and robust package
- Variety of lens types available
- Package: 2000 pcs / reel
- Moisture sensitivity level : level 3
- RoHS compliant



Package Schematics



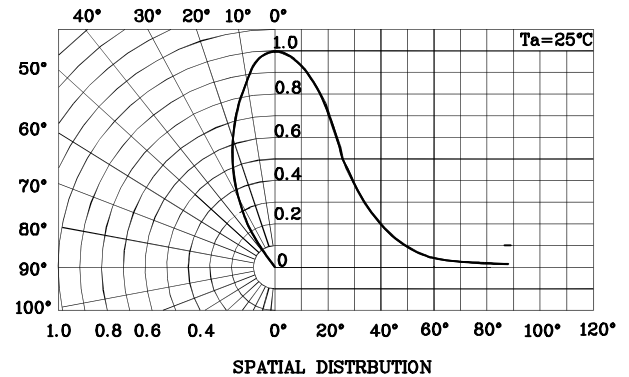
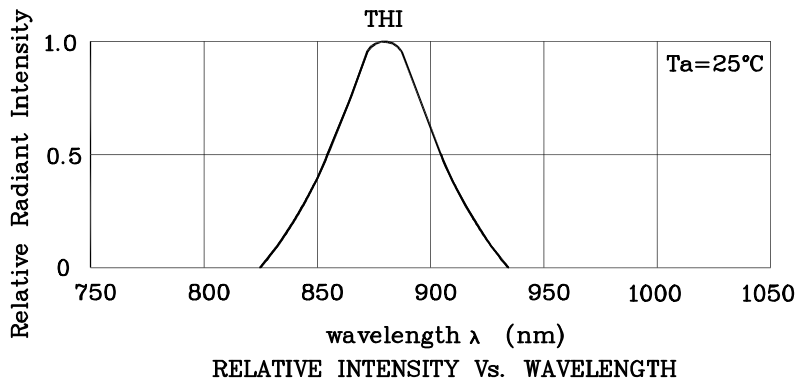
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.008)$ " unless otherwise noted.
3. Specifications are subject to change without notice.

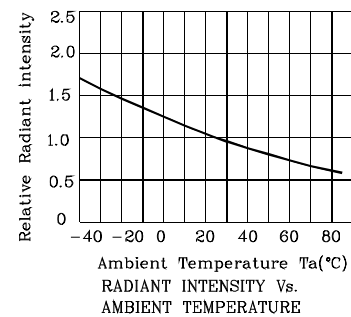
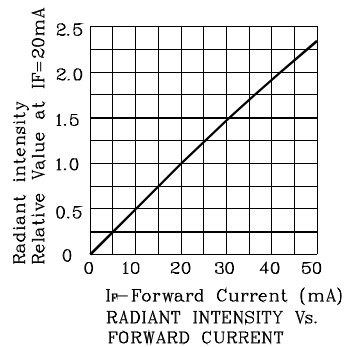
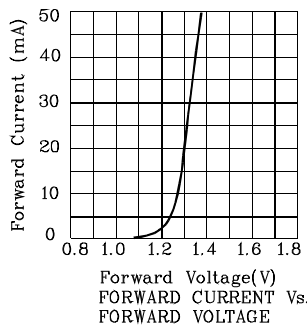
Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)		THI (GaAlAs)	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	50	mA
Forward Current (Peak) 1/100 Duty Cycle 10us Pulse Width	i_{FS}	1200	mA
Power Dissipation	P_D	80	mW
Operating Temperature	T_A	-40 ~ +85	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40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

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.		
XZTHI55W-3	GaAlAs	Water Clear	1.6	3.8	880	50°

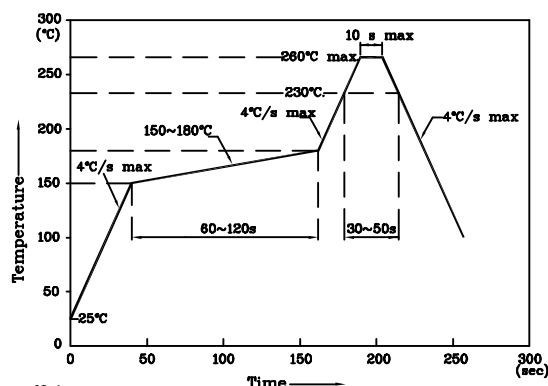


❖ THI



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

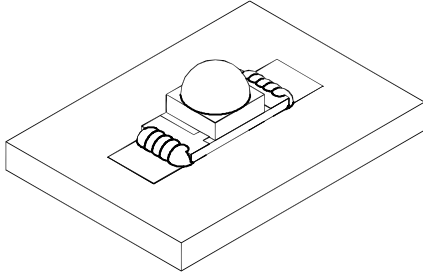
Reflow Soldering Profile for SMD Products (Pb-Free Components)



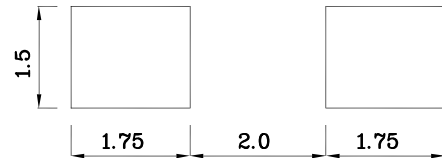
Notes:

1. Maximum soldering temperature should not exceed 260°C
2. Recommended reflow temperature: $145^\circ\text{C} \sim 260^\circ\text{C}$
3. Do not put stress to the epoxy resin during high temperatures conditions

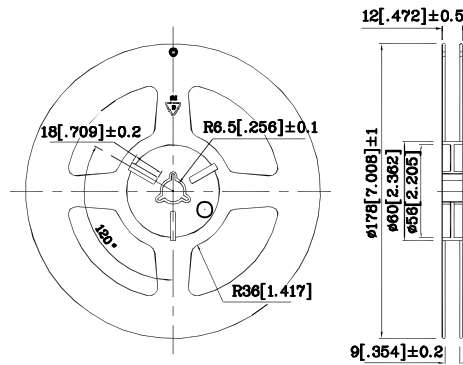
❖ The device has a single mounting surface.
The device must be mounted according to the specifications.



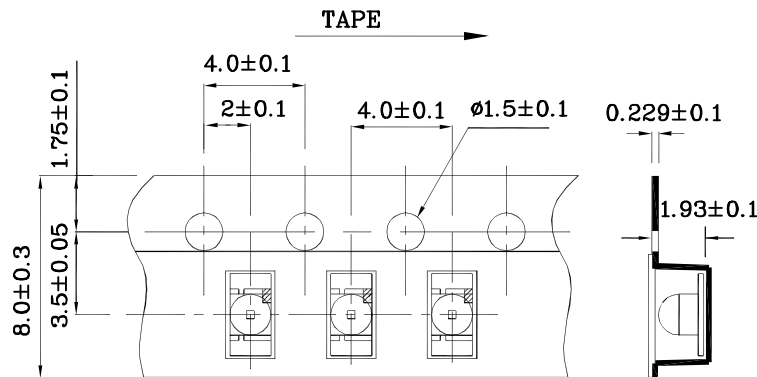
❖ Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)



❖ Reel Dimension



❖ Tape Specification (Units : mm)



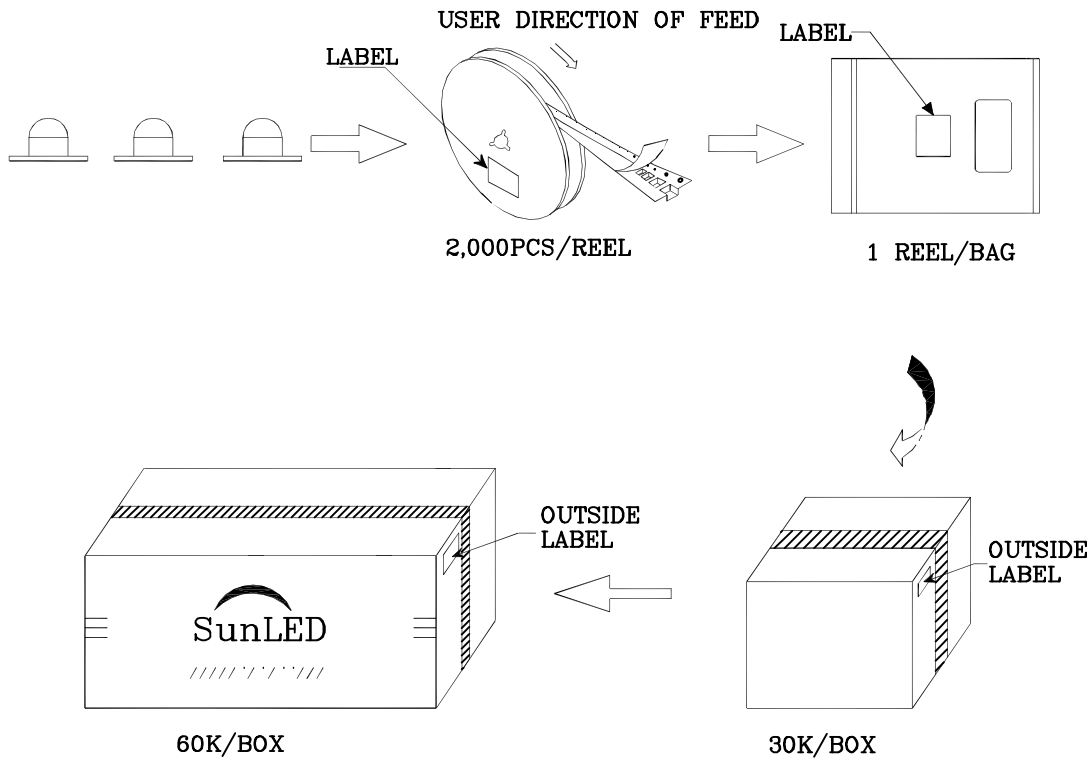
Remarks:

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





Q.C. Q C
 XX XX XXXX
 PASSED

P/NO : XZxxx55x	
QTY : 2,000 pcs	CODE: XXX
S/N : XX	
LOT NO :  XXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	