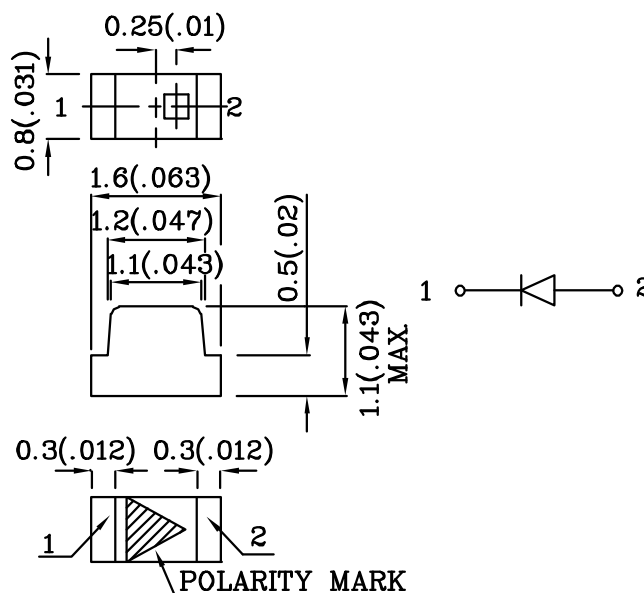


- 1.6mmX0.8mm SMT LED, 1.1mm THICKNESS.
- MECHANICALLY AND SPECTRALLY MATCHED TO THE PHOTOTRANSISTOR.
- WATER CLEAR LENS.
- PACKAGE: 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- RoHS COMPLIANT.



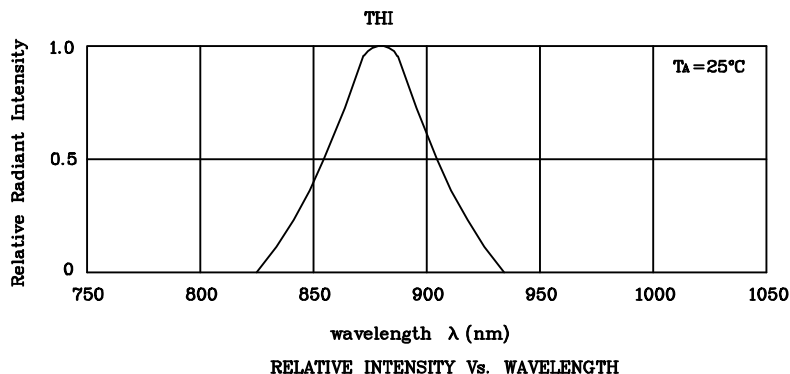
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.
3. Specifications are subject to change without notice.

Absolute Maximum Ratings (TA=25°C)		THI (GaAlAs)	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	50	mA
Forward Current (Peak) 1/100 Duty Cycle 10us Pulse Width	iFS	1.2	A
Power Dissipation	PT	80	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	

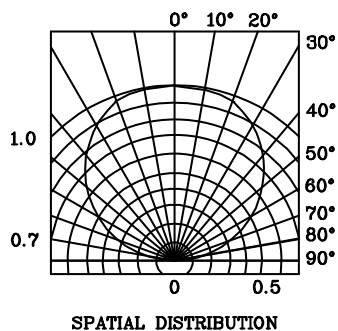
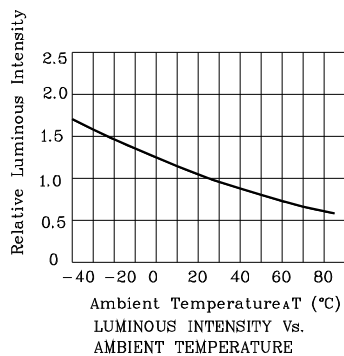
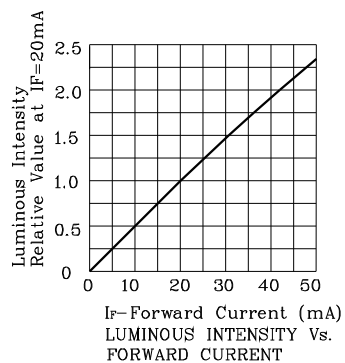
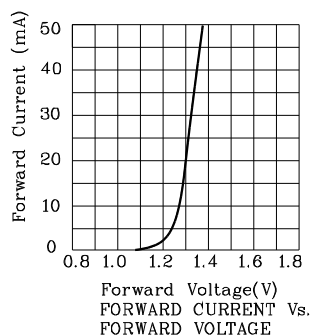


Operating Characteristics (T _A =25°C)		THI (GaAlAs)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	1.3	V
Forward Voltage (Max.) (I _F =20mA)	V _F	1.6	V
Reverse Current (Max.) (V _R =5V)	I _R	10	uA
Wavelength of Peak Emission (Typ.) (I _F =20mA)	λ P	880	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	50	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	90	pF

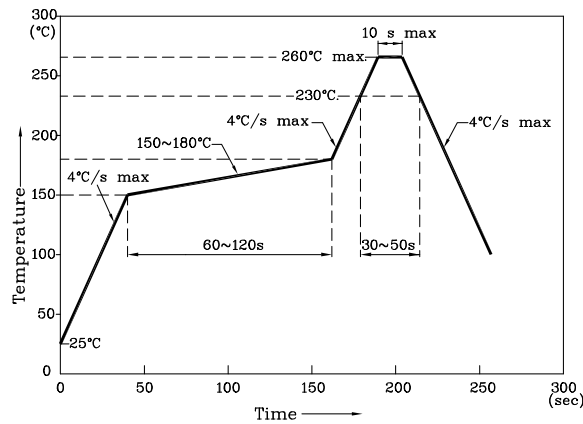
Part Number	Emitting Color	Emitting Material	Luminous Intensity (Po=Mw/sr) @20mA	Wavelength nm λ P	Viewing Angle 2 θ 1/2	
			min.	typ.		
ZTHI53W	GaAlAs	Water Clear	0.4	0.8	880	120°
Published Date : FEB 28,2008		Drawing No : SDSA3659		V5	Checked : B.L.LIU	P.1/4



❖ **THI**



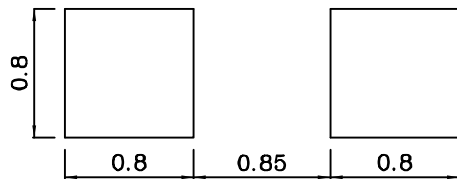
Reflow Soldering Profile For Lead-free SMT Process.



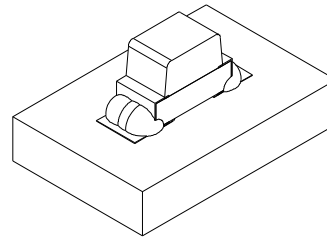
NOTES:

1. Maximum soldering temperature should not exceed 260°C.
2. Recommended reflow temperature: 145°C–260°C.
3. Do not put stress to the epoxy resin during high temperatures conditions.

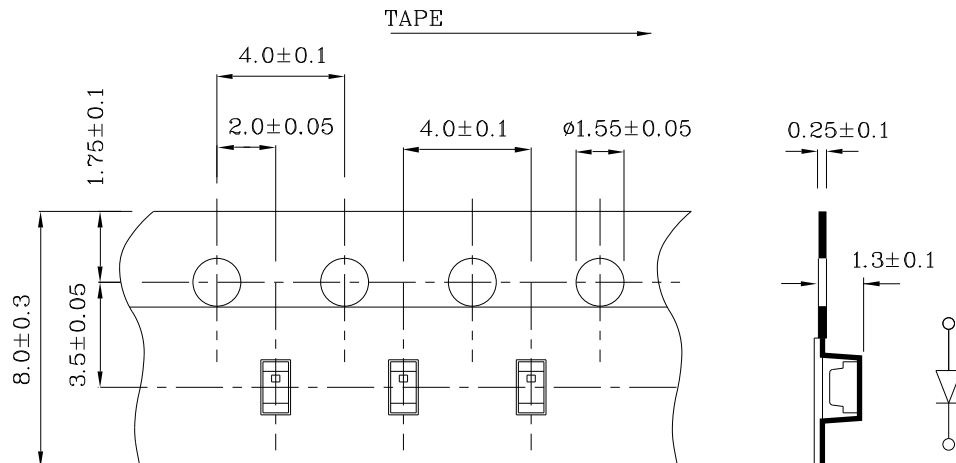
❖ Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)



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



❖ Tape Specification (Units : mm)



Remarks:

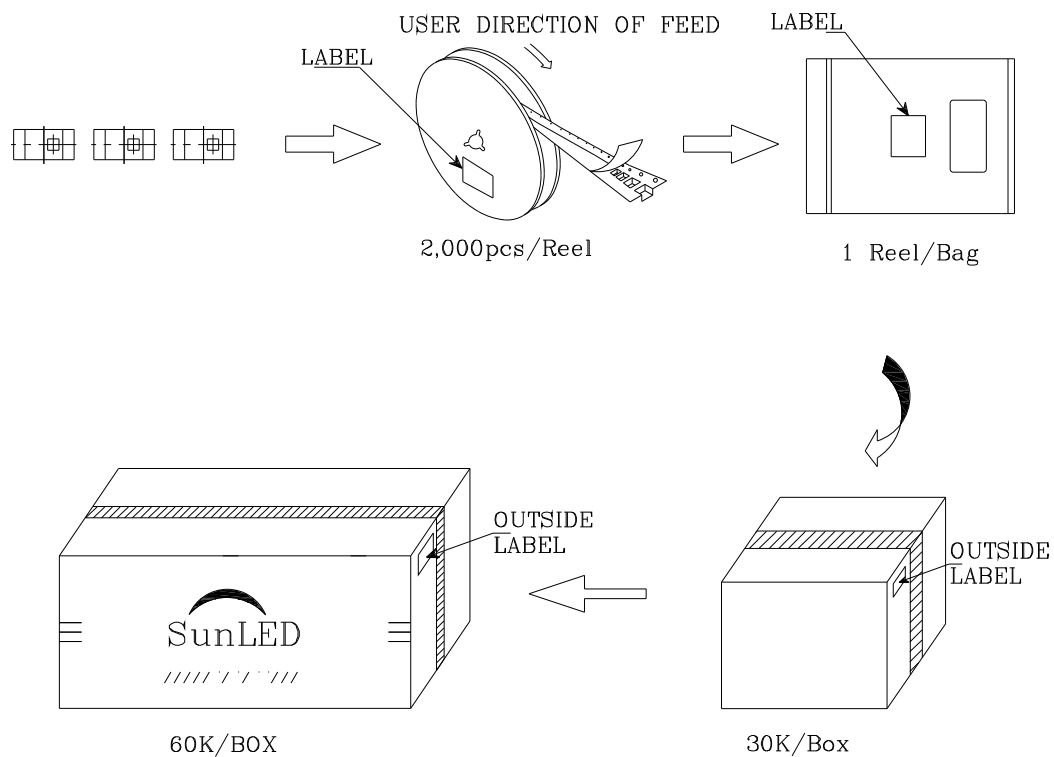
If special sorting is required (e.g. binning based on forward voltage or radiant intensity / luminous flux), the typical accuracy of the sorting process is as follows:

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

Note: Accuracy may depend on the sorting parameters

PACKING & LABEL SPECIFICATIONS

ZTHI53W



SunLED

Q.C. Q C

XX XX. XXXX

PASSED

P/NO : Zxxx53x	
QTY : 2,000 pcs	CODE: XXX
S/N : XX	
LOT NO :	
XXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	