

3.5x2.8 mm SMD CHIP LED LAMP

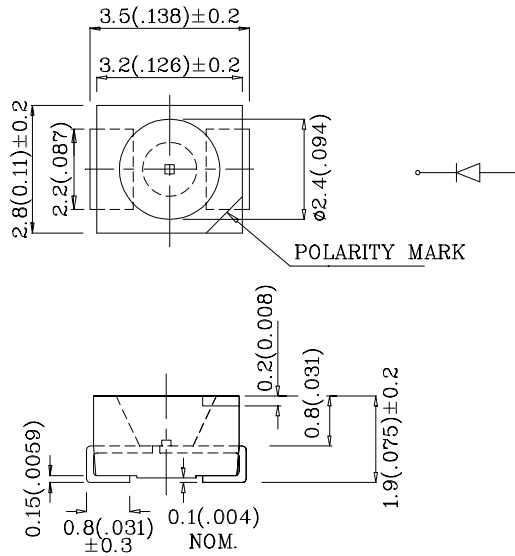


SUN LED

Email : sales@us.sunled.com

Web Site : www.sunled.com

XZTHI45W



Notes:

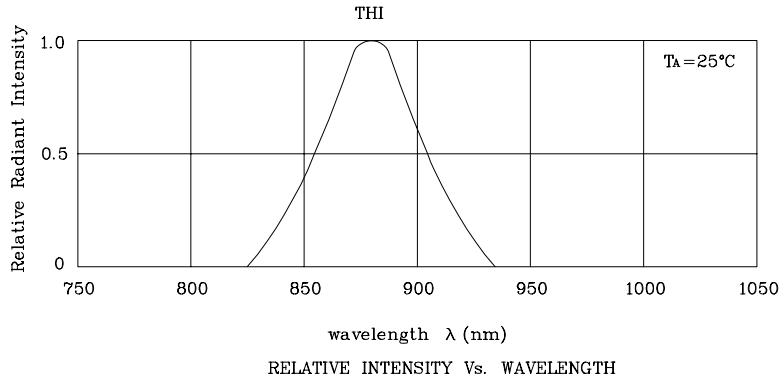
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.

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) 1/100Duty cycle 10us pulse width	i_{FS}	1.2	A
Power dissipation	P_T	100	mW
Operation temperature	T_A	-40 ~ +85	°C
Storage temperature	T_{stg}	-40 ~ +85	

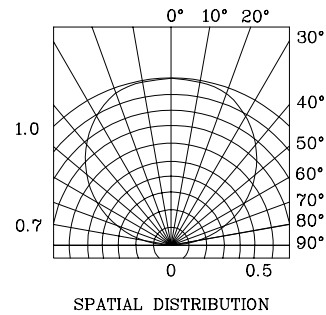
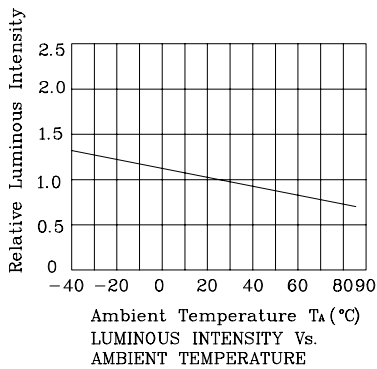
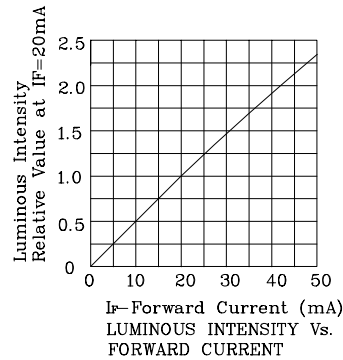
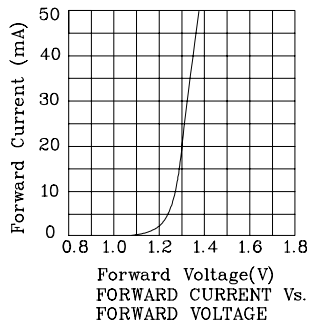
Operating Characteristics ($T_A=25^\circ\text{C}$)		THI (GaAlAs)	Unit
Forward voltage (typ.) ($I_F=20\text{mA}$)	V_F	1.3	V
Forward voltage (max.) ($I_F=20\text{mA}$)	V_F	1.6	V
Reverse current ($V_R=5\text{V}$)	I_R	10	μA
Wavelength at peak emission ($I_F=20\text{mA}$)	λ_{peak}	880	nm
Spectral Line half-width ($I_F=20\text{mA}$)	$\Delta\lambda$	50	nm
Capacitance ($V_F=0\text{V}$, $f=1\text{MHz}$)	C	90	pF

Part Number	Emitting Material	Lens-color	Luminous Intensity ($I_F=20\text{mA}$ * 50mA) mW/sr		Wavelength nm λ_P	Viewing Angle $2\theta_{1/2}$
			min.	typ.		
XZTHI45W	GaAlAs	Water Clear	0.4	2	880	120°
			*2	*3		

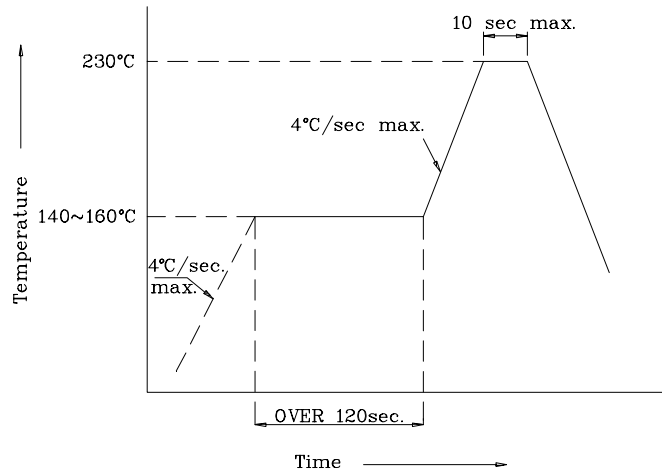
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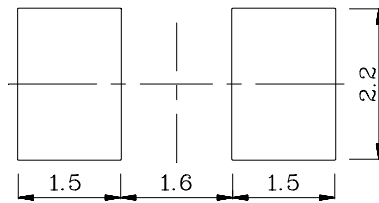
◆THI



XZTH145W
❖ SMT Reflow Soldering Instructions



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



❖ Tape Specification (Units : mm)

