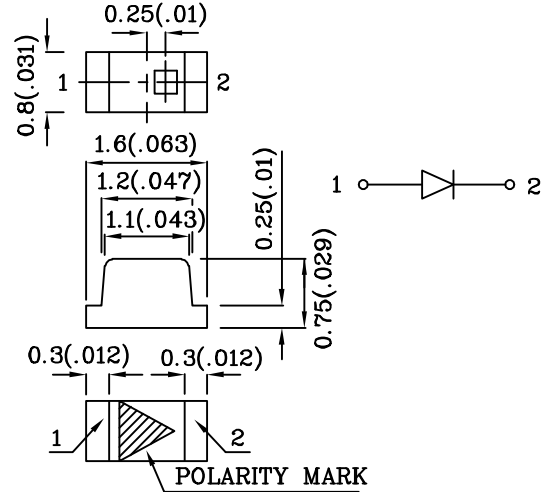


Features

- 1.6mmX0.8mm SMT LED, 0.75mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE: 2000PCS / REEL .
- RoHS COMPLIANT.



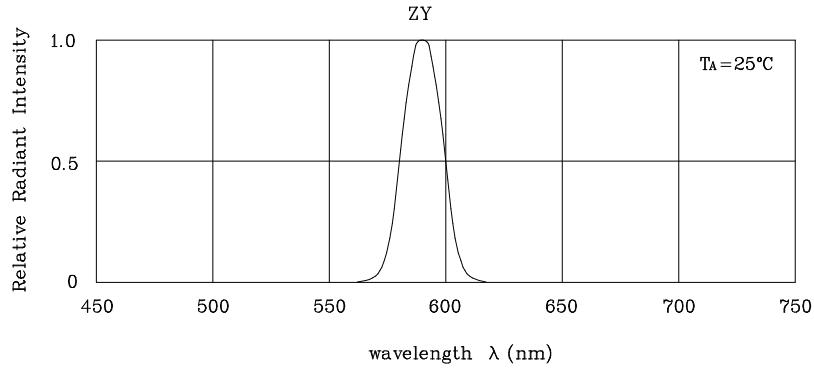
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1(0.004)$ " unless otherwise noted.

Absolute maximum ratings ($T_A=25^\circ\text{C}$)		ZY (InGaAlP)	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	30	mA
Forward Current (peak) 1/10Duty Cycle 0.1ms Pulse Width	i_{FS}	140	mA
Power Dissipation	P_T	120	mW
Operating Temperature	T_A	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +85	

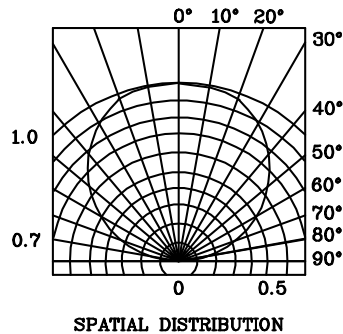
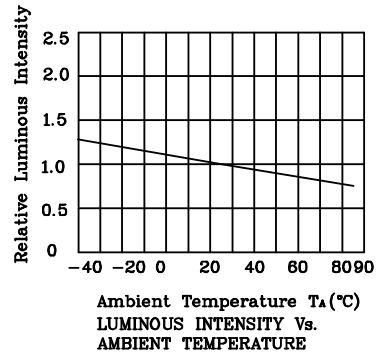
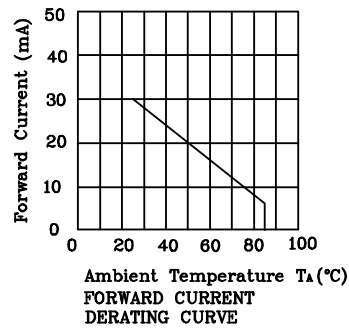
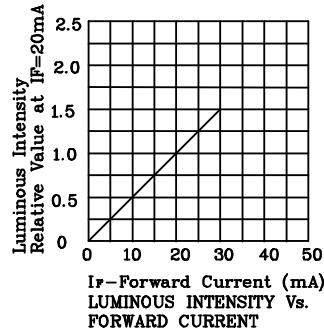
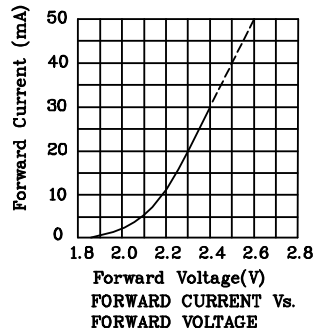
Operating Characteristics ($T_A=25^\circ\text{C}$)		ZY (InGaAlP)	Unit
Forward Voltage (typ.) ($I_F=20\text{mA}$)	V_F	2.3	V
Forward Voltage (max.) ($I_F=20\text{mA}$)	V_F	2.8	V
Reverse Current ($V_R=5\text{V}$)	I_R	10	μA
Wavelength of Peak Emission ($I_F=20\text{mA}$)	λ_P	590	nm
Wavelength of Dominant Emission ($I_F=20\text{mA}$)	λ_D	589	nm
Spectral Line Full Width At Half-Maximum ($I_F=20\text{mA}$)	$\Delta\lambda$	20	nm
Capacitance ($V_F=0\text{V}$, $f=1\text{MHz}$)	C	45	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity ($I_F=20\text{mA}$) mcd		Wavelength nm λ_P	Viewing Angle $2\theta_{1/2}$
				min.	typ.		
XZZY53W-1	Yellow	InGaAlP	Water Clear	70	218	590	120°
Published Date : MAY 09, 2005		Drawing No : XDSA3590		V2		Checked : B.L.LIU P.1/3	

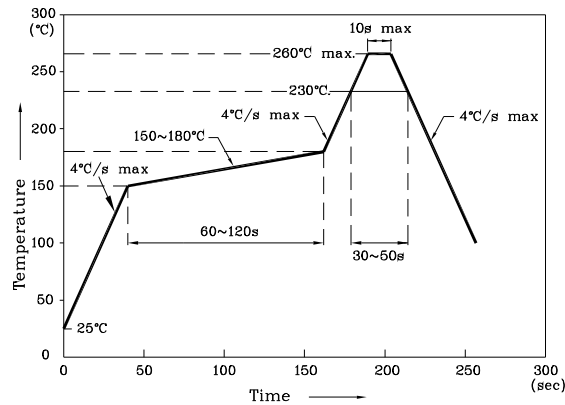


RELATIVE INTENSITY Vs. WAVELENGTH

❖ ZY



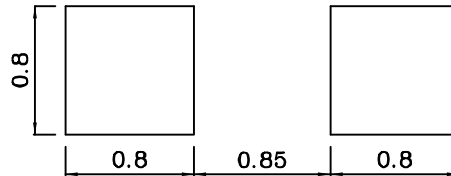
Reflow Soldering Profile For Lead-free SMT Process.



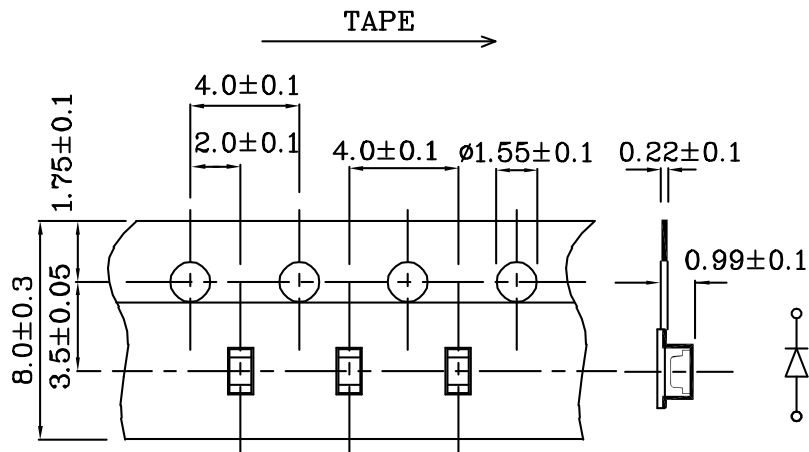
Notes:

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)



❖ Tape Specification (Units : mm)



Remarks:

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

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.