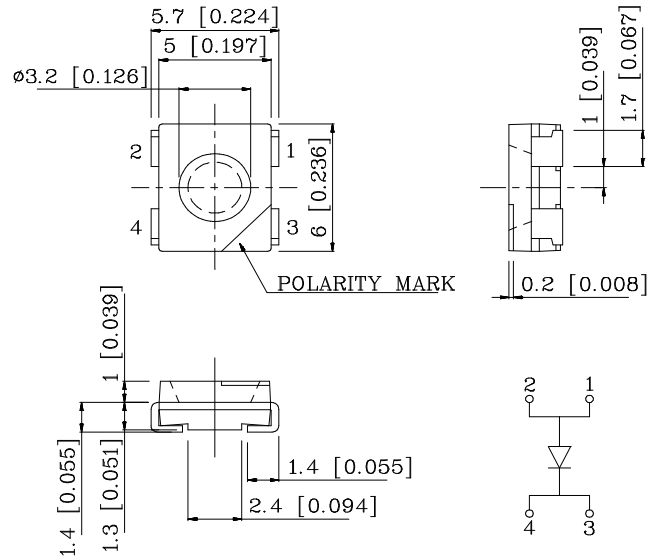


**Features**

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- PACKAGE : 500PCS / REEL.
- RoHS COMPLIANT.



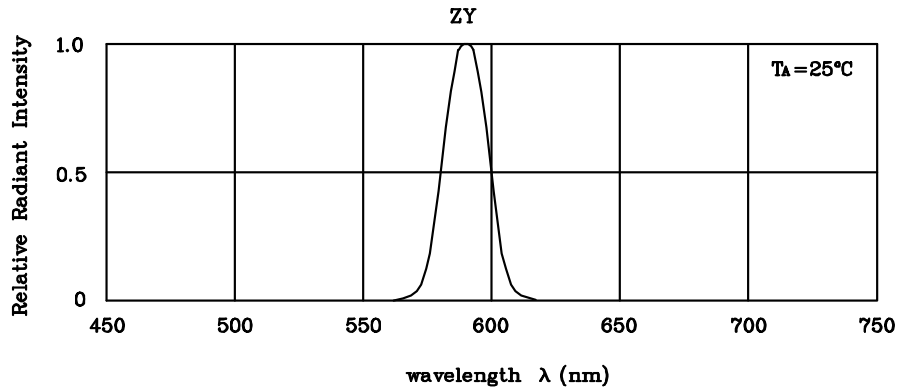
**Notes:**

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25(0.01") unless otherwise noted.

Absolute Maximum Ratings (TA=25°C)		ZY (InGaAlP)	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	50	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	140	mA
Power Dissipation	PT	140	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	

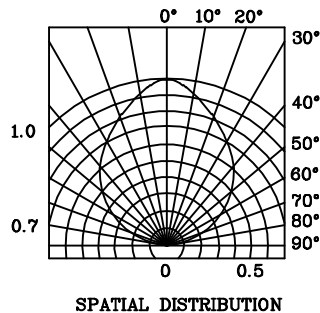
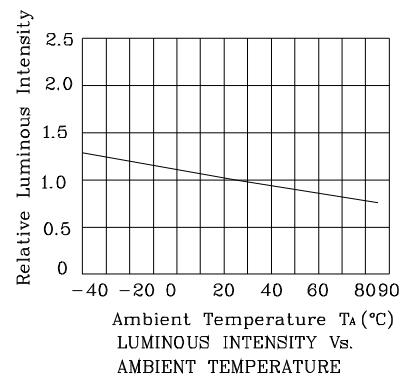
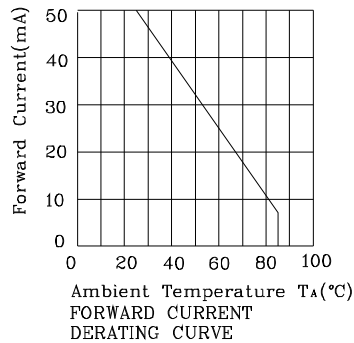
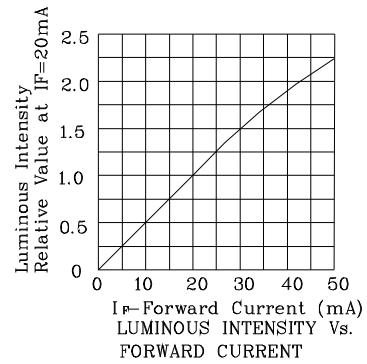
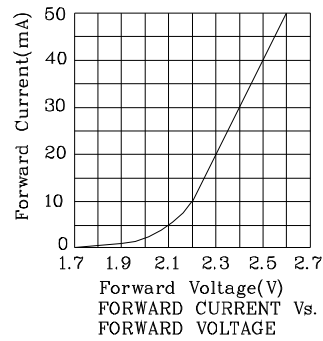
Operating Characteristics (TA=25°C)		ZY (InGaAlP)	Unit
Forward Voltage (Typ.) (IF=20mA)	VF	2.3	V
Forward Voltage (Max.) (IF=20mA)	VF	2.8	V
Reverse Current (VR=5V)	IR	10	uA
Wavelength of Peak Emission (IF=20mA)	λ P	590	nm
Wavelength of Dominant Emission (IF=20mA)	λ D	589	nm
Spectral Line Full Width At Half-Maximum (IF=20mA)	Δλ	20	nm
Capacitance (VF=0V, f=1MHz)	C	45	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=50mA) mcd		Wavelength nm λ P	Viewing Angle 2θ 1/2
				min.	typ.		
XZZY82W	Yellow	InGaAlP	Water Clear	380	695	590	100°
Published Date : MAY 14,2005							
Drawing No : XDSA4642		V2		Checked : B.L.LIU		P.1/3	

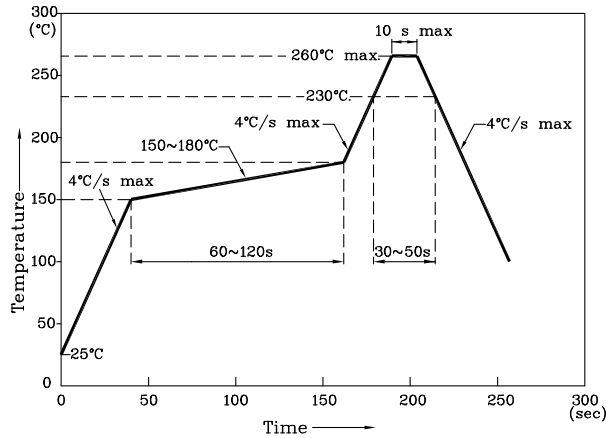


RELATIVE INTENSITY Vs. WAVELENGTH

❖ ZY



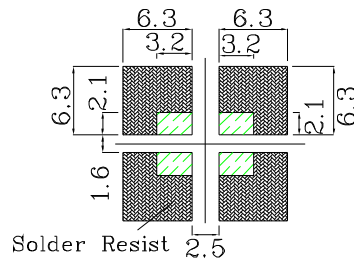
Reflow Soldering Profile For Lead-free SMT Process.



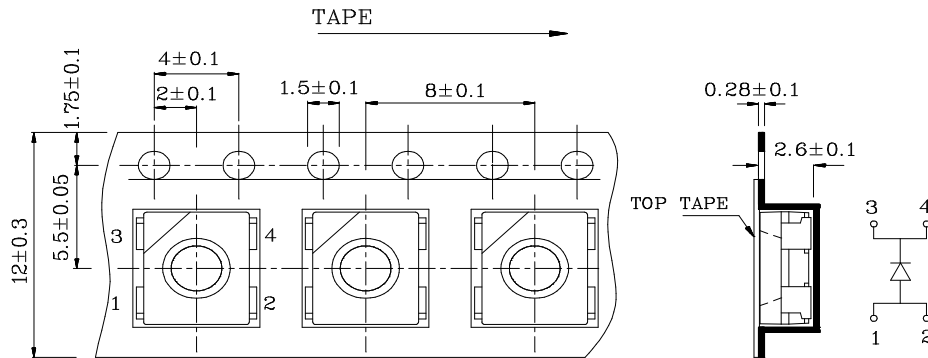
NOTES:

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.