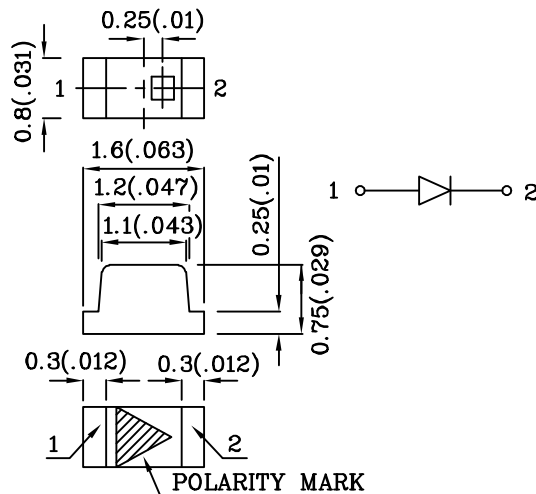


- 1.6mmX0.8mm SMT LED, 0.75mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE: 2000PCS / REEL .
- RoHS COMPLIANT.

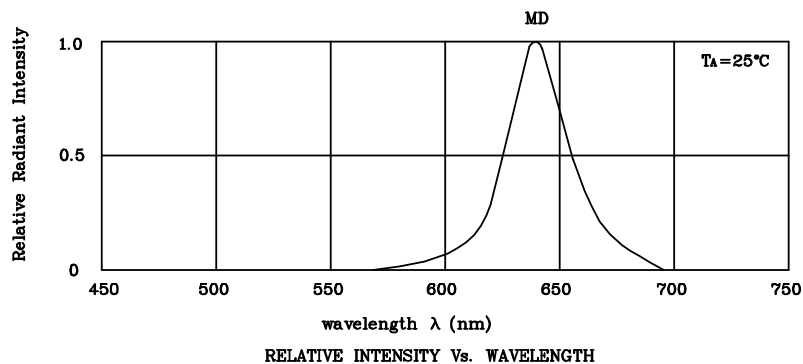


1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.

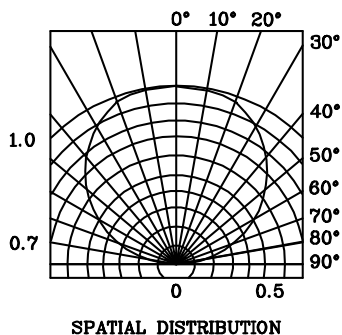
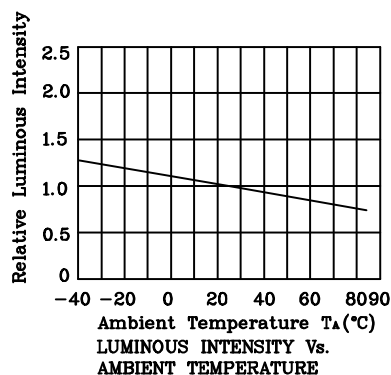
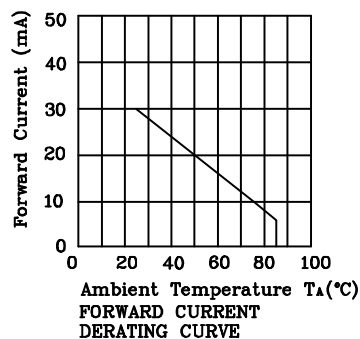
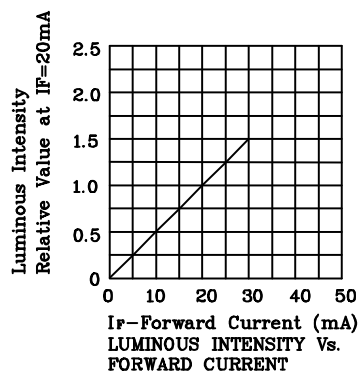
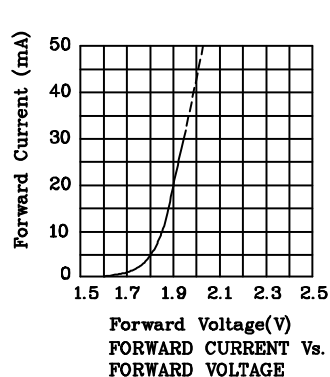
Absolute maximum ratings (TA=25°C)		MD (InGaAlP)	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	185	mA
Power Dissipation	PT	170	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	

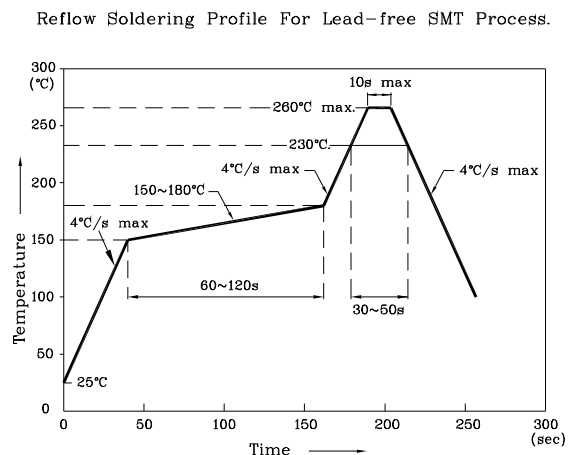
Operating Characteristics (T _A =25°C)		MD (InGaAlP)	Unit
Forward Voltage (typ.) (I _F =20mA)	V _F	1.9	V
Forward Voltage (max.) (I _F =20mA)	V _F	2.5	V
Reverse Current (V _R =5V)	I _R	10	uA
Wavelength of Peak Emission (I _F =20mA)	λ P	640	nm
Wavelength of Dominant Emission (I _F =20mA)	λ D	628	nm
Spectral Line Full Width At Half-Maximum (I _F =20mA)	Δλ	27	nm
Capacitance (V _F =0V, f=1MHz)	C	45	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=20mA) mcd	Wavelength nm λ P	Viewing Angle 2 θ 1/2	
				min.	typ.		
XZMD53W-1	Red	InGaAlP	Water Clear	70	198	640	120°
Published Date : MAY 07,2005		Drawing No :XDSA1214		V4	Checked : B.L.LIU		P.1/3



❖ MD

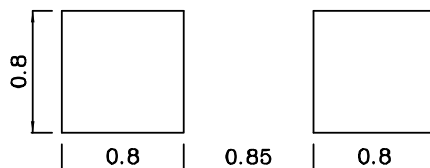




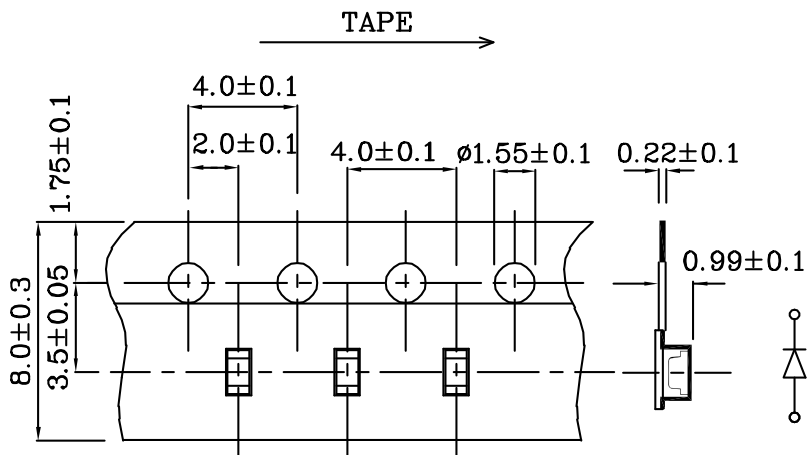
Notes:

- 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: $\pm 1\text{nm}$
2. Luminous Intensity: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.