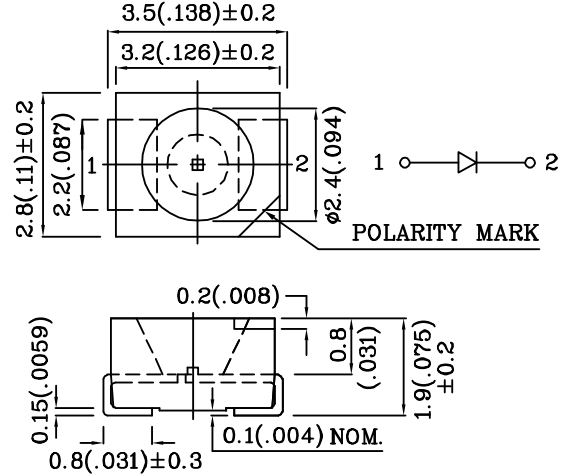


PRELIMINARY SPEC

**Features**

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- PACKAGE : 1500PCS / REEL.
- BLACK CASE.
- RoHS COMPLIANT.



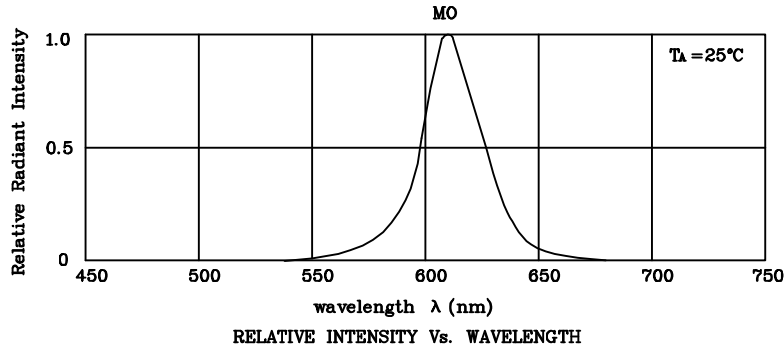
Notes:

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

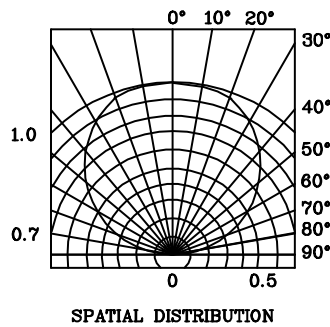
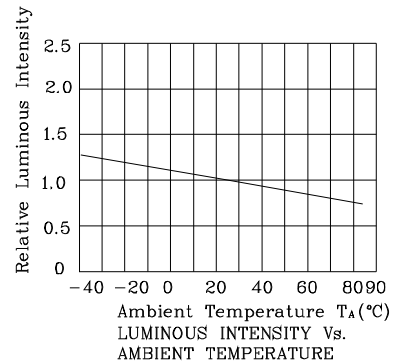
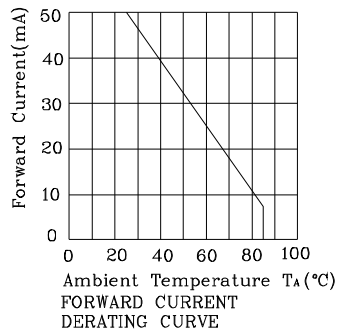
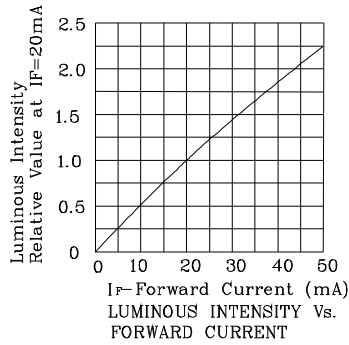
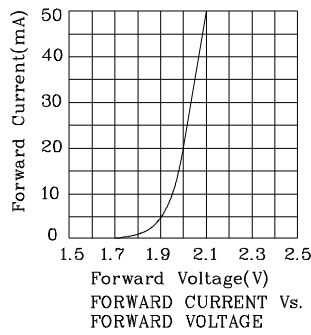
Absolute maximum ratings (TA=25°C)		MO (InGaAlP)	Unit
Reverse voltage	V <sub>R</sub>	5	V
Forward current	I <sub>F</sub>	50	mA
Forward current (peak) 1/10Duty cycle 0.1ms pulse width	i <sub>FS</sub>	195	mA
Power dissipation	P <sub>T</sub>	125	mW
Operating temperature	T <sub>A</sub>	-40 ~ +85	°C
Storage temperature	T <sub>stg</sub>	-40 ~ +85	

Operating Characteristics (TA=25°C)		MO (InGaAlP)	Unit
Forward voltage (typ.) (I <sub>F</sub> =20mA)	V <sub>F</sub>	2.0	V
Forward voltage (max.) (I <sub>F</sub> =20mA)	V <sub>F</sub>	2.5	V
Reverse current (V <sub>R</sub> =5V)	I <sub>R</sub>	10	uA
Wavelength at peak emission (I <sub>F</sub> =20mA)	λ peak	610	nm
Wavelength of Dominant emission (I <sub>F</sub> =20mA)	λ D	601	nm
Spectral Line half-width (I <sub>F</sub> =20mA)	Δλ	29	nm
Capacitance (V <sub>F</sub> =0V, f=1MHz)	C	30	pF

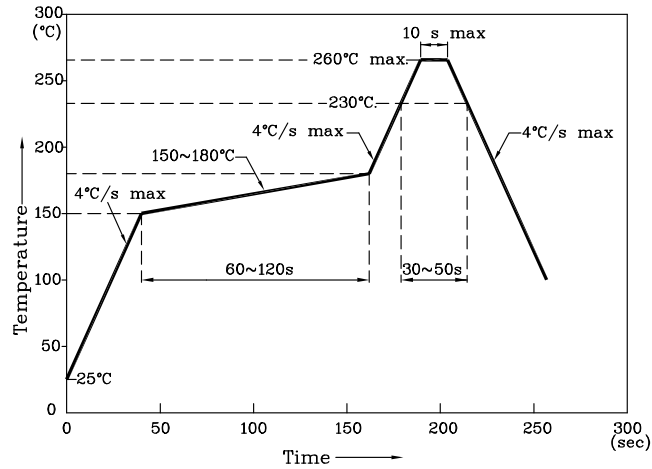
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I <sub>F</sub> =20mA) mcd		Wavelength nm λ P	Viewing Angle 2 θ 1/2
				min.	typ.		
XZMO45WB	Orange	InGaAlP	Water Clear	50	148	610	120°



❖ MO



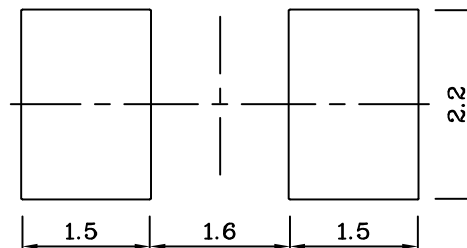
Reflow Soldering Profile For Lead-free SMT Process.



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)

