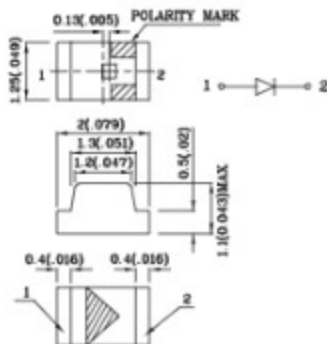


Features

- 2.0mmx1.25mm SMT LED, 1.1mm THICKNESS
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE
- PACKAGE: 300PCS/REEL
- RoHS COMPLIANT.



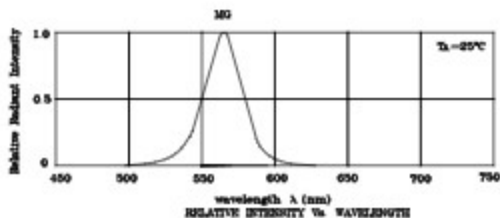
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.10(0.004)$ unless otherwise noted.

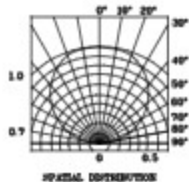
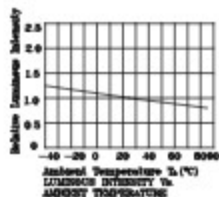
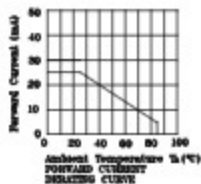
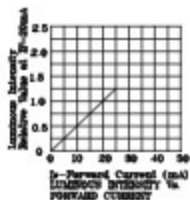
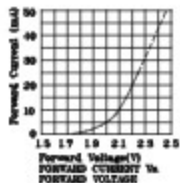
Absolute maximum ratings ($T_c=25^\circ\text{C}$)		MG (GaP)	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	I_{FM}	140	mA
Power Dissipation	P_T	105	mW
Operating Temperature	T_J	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +85	

Operating Characteristics ($T_c=25^\circ\text{C}$)		MG (GaP)	Unit
Forward Voltage (Typ.) ($I_F=20\text{mA}$)	V_F	2.2	V
Forward Voltage (Max.) ($I_F=20\text{mA}$)	V_F	2.5	V
Reverse Current ($V_R=5\text{V}$)	I_R	10	μA
Wavelength of Peak Emission ($I_F=20\text{mA}$)	λ_p	565	nm
Wavelength of Dominant Emission ($I_F=20\text{mA}$)	λ_D	565	nm
Spectral Line Full Width At Half Maximum ($I_F=20\text{mA}$)	$\Delta\lambda$	50	nm
Capacitance ($V_F=2\text{V}$, @1kHz)	C	15	pF

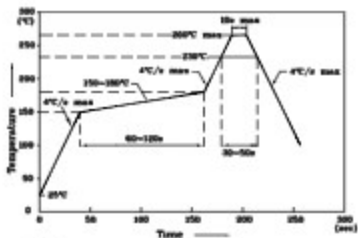
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity ($I_F=20\text{mA}$) mcd		Wavelength nm λP	Viewing Angle 2θ/1/2
				min.	typ.		
XZMG54W	Green	GaP	Water Clear	4	14	565	120°
Published Date : MAY 11,2005 Drawing No : XZRA1250 V4 Checked : E.L.LJU P.1/1							



+ MG



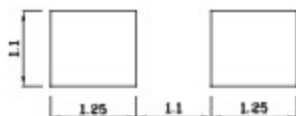
Reflow Soldering Profile For Lead-free SMT Process.



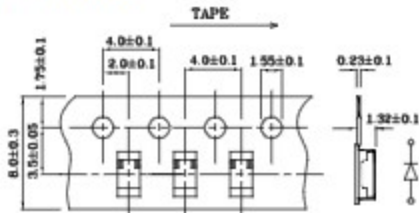
Notes:

1. Maximum soldering temperature should not exceed 260°C.
2. Recommended reflow temperature: 145°C-200°C.
3. Do not put stress to the epoxy resin during high temperature 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: $\pm 1nm$
2. Luminous Intensity: $\pm 15%$
3. Forward Voltage: $\pm 0.1V$

Note: Accuracy may depend on the sorting parameters.