

Features

- CYLINDRICAL TYPE, TOP DI FFUSED.
- I.C. COMPATIBLE.
- LOW POWER CONSUMPTION.
- RELIABLE AND RUGGED.
- LONG LIFE-SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.



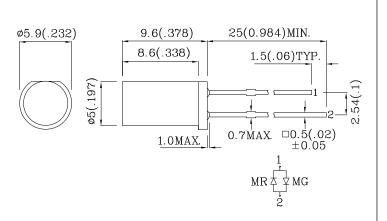
Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is \pm 0.25(0.01") unless otherwise noted.

3.Specifications are subject to change without notice.

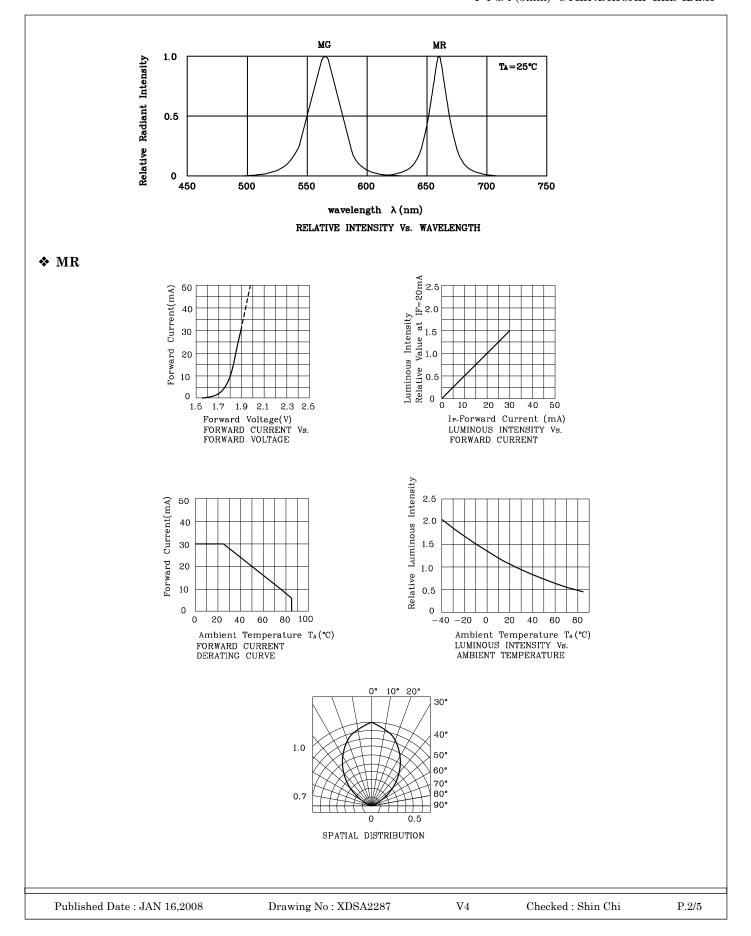
Absolute maximum ratings (TA=25°C)		MR MG (GaAlAs)		Unit		
Forward Current	IF	30	25	mA		
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	155	140	mA		
Power Dissipation	Рт	75	62.5	mW		
Operating Temperature	ТА	-40 ~ +85		°C		
Storage Temperature	Tstg	-40 ~ -				
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds					
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds					



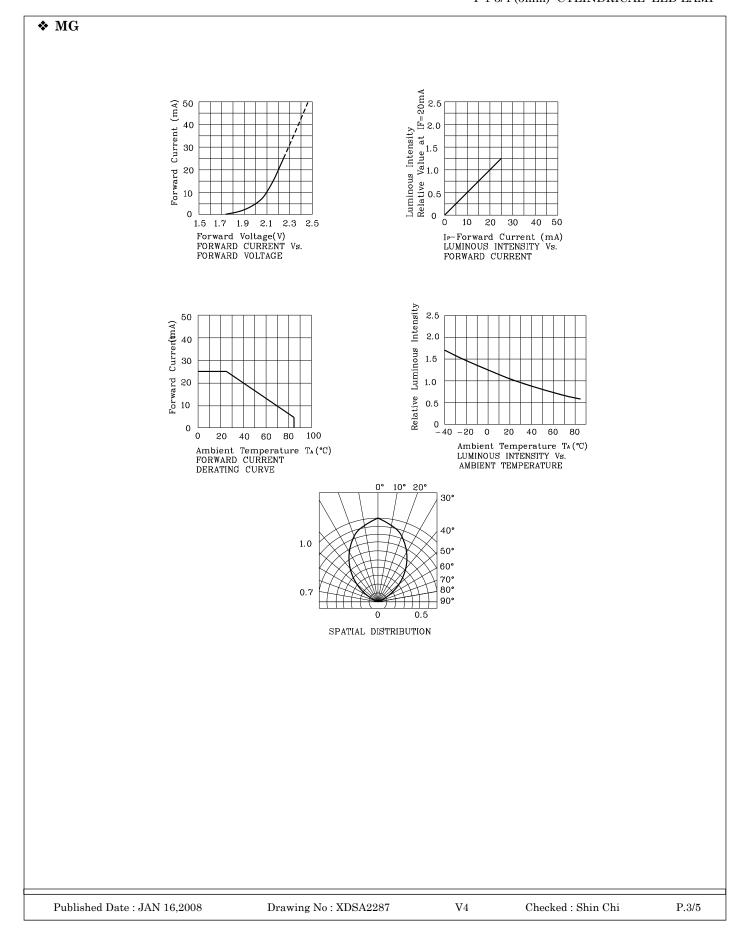
Operating Characteristics (TA=25°C)		MR (GaAlAs)	MG (GaP)	Unit
Forward Voltage (Typ.) (IF=20mA)	VF	1.85	2.2	V
Forward Voltage (Max.) (IF=20mA)	VF	2.5	2.5	V
Wavelength of Peak Emission (Typ.) (IF=20mA)	λΡ	660	565	nm
Wavelength of Dominant Emission (Typ.) (IF=20mA)	λ D	640	568	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA)	Δλ	20	30	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	С	45	15	pF

Part Emitting Number Color		Emitting Lens-color Material		Luminous Intensity (IF=20mA) mcd		Viewing Angle 2 0 1/2
			min.	typ.		
Red	GaAlAs	GaAlAs GaP White Diffused	18	49	660	- 80°
XSMGR15M Green	GaP		4	9	565	
N 16,2008						
	Color Red Green	Color Material	Color Material Lens-color Red GaAlAs White Diffused	Emitting Color Emitting Material Lens-color Inter (IF=2) m min. Red GaAlAs White Diffused	Emitting Color Emitting Material Lens-color Intensity (IF=20mA) mcd min. typ. Red GaAlAs 18 49	Emitting Color Emitting Material Lens-color Intensity (IF=20mA) mcd Wavelength nm λ P min. typ. Red GaAlAs White Diffused

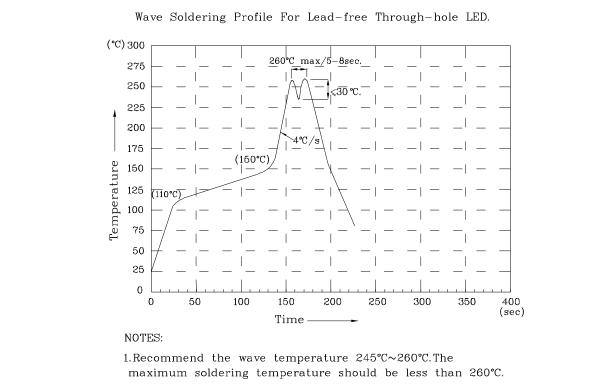












2.Do not apply stress on epoxy resins when temperature is over 85 degree $^{\circ}$ C. 3.The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy). 4.No more than once.

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength),

the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm

2. Luminous Intensity / Luminous Flux: +/-15%

3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



