SunLED
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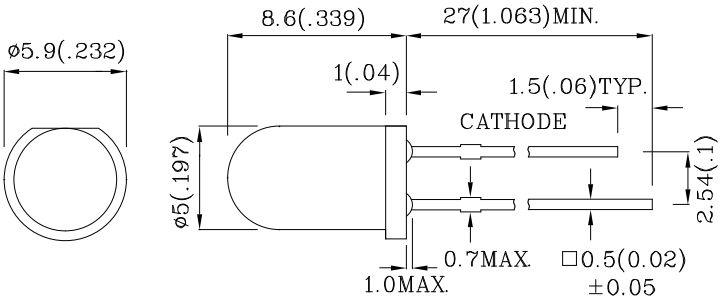
Part Number: **LMG12D14V**

T-1 3/4 (5mm) SOLID STATE LAMP

Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- 14V INTERNAL RESISTOR.
- RoHS COMPLIANT.



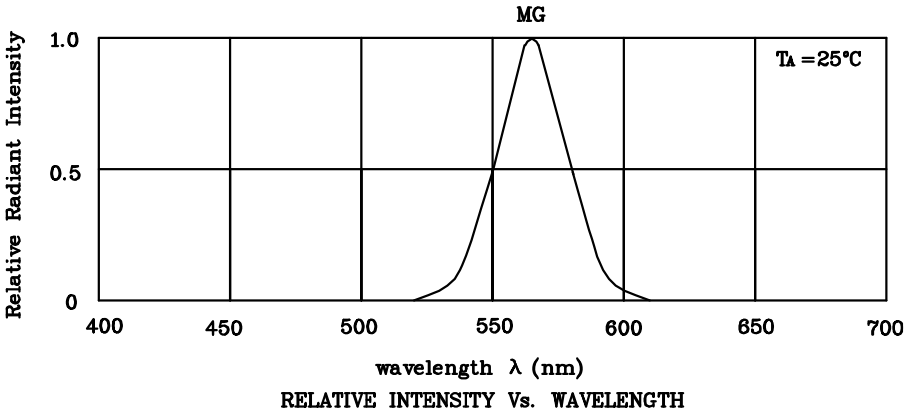
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25(0.01") unless otherwise noted.
3.Specifications are subject to change without notice.

Absolute maximum ratings (TA=25°C)		**MG (GaP)**	**Unit**
Reverse Voltage	VR	5	V
Forward Voltage	VF	16	V
Power Dissipation	PT	160	mW
Operating Temperature	TA	-40 ~ +70	°C
Storage Temperature	Tstg	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds		
Lead Solder Temperature [5mm Below Package Base	260°C For 5 Seconds		

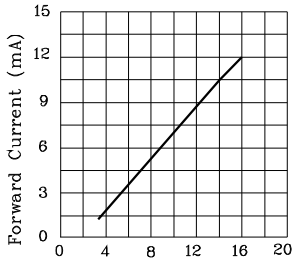
Operating Characteristics (TA=25°C)		**MG (GaP)**	**Unit**
Forward Current (Typ.) (VF=14V)	IF	10.5	mA
Forward Current (Max.) (VF=14V)	IF	13.5	mA
Reverse Current (Max.) (VR=14V)	IR	10	uA
Wavelength of Peak Emission (Typ.) (VF=14V)	λ P	565	nm
Spectral Line Full Width At Half-Maximum (Typ.) (VF=14V)	λ D	568	nm
Spectral Line Half-Width (VF=14V) (Typ.)	Δλ	30	nm

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (V=14V) mcd		Wavelength nm λ P	Viewing Angle 2 θ 1/2
				min.	typ.		
LMG12D14V	Green	GaP	Green Diffused	5	17	565	30°

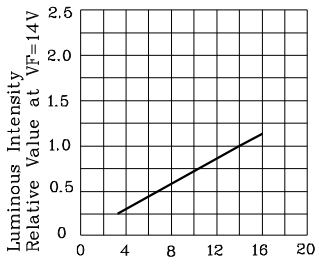


RELATIVE INTENSITY Vs. WAVELENGTH

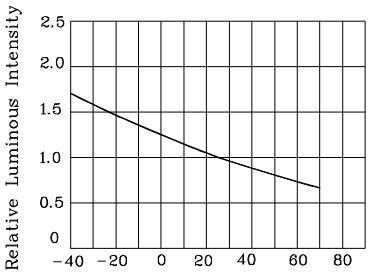
❖ MG



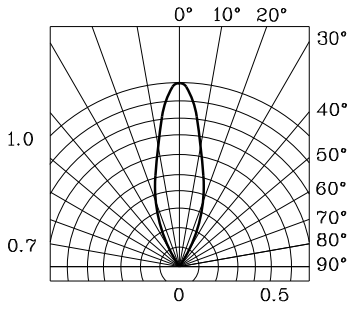
FORWARD VOLTAGE Vs. FORWARD CURRENT



FORWARD VOLTAGE Vs. LUMINOUS INTENSITY

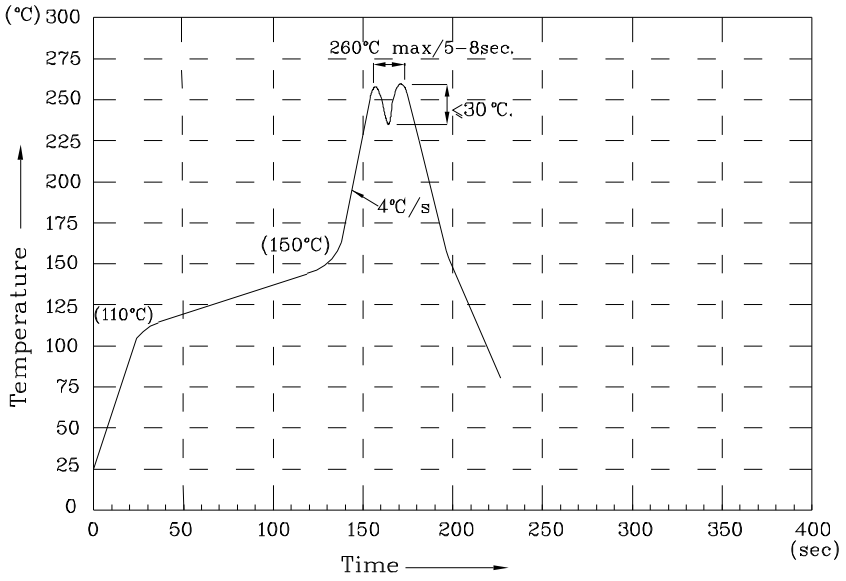


LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION

Wave Soldering Profile For Lead-free Through-hole LED.



NOTES:

1. Recommend the wave temperature 245℃~260℃. The maximum soldering temperature should be less than 260℃.
2. Do not apply stress on epoxy resins when temperature is over 85 degree℃.
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 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%

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS LMG12D14V