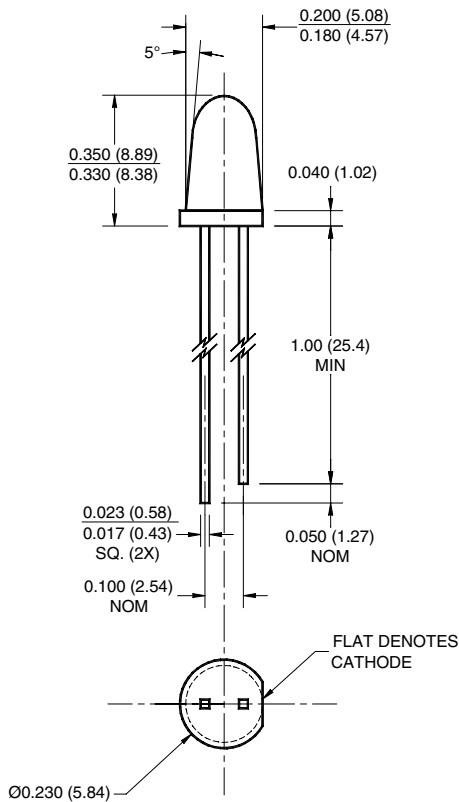


SUPER BRIGHT T-1 3/4 (5 mm) LED LAMP - Water Clear

PACKAGE DIMENSIONS



NOTES:

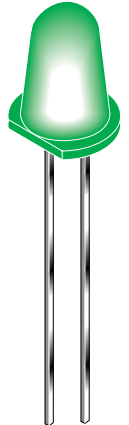
1. Dimensions for all drawings are in inches (mm).
2. Lead spacing is measured where the leads emerge from the package.
3. Protruded resin under the flange is 1.5 mm (0.059") max.

SUPER GREEN
MV8410 MV8411
MV8412

MV841X

FEATURES

- Popular T-1 3/4 package
- Super high brightness suitable for outdoor applications
- Solid state reliability
- Water clear optics
- Standard 100 mil. lead spacing



DESCRIPTION

This T-1 3/4 super bright LED has a narrow viewing angle of 12° for concentrated light output. The MV841X series is made with a GaP LED that emits green light at 565 nm. It is encapsulated in a water clear epoxy lens package.

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Operating Temperature	T _{OPR}	-40 to +85	°C
Storage Temperature	T _{STG}	-40 to +100	°C
Lead Soldering Time	T _{SOL}	260 for 5 sec	°C
Continuous Forward Current	I _F	30	mA
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I _F	160	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	85	mW

SUPER BRIGHT T-1 3/4 (5 mm) LED LAMP - Water Clear

SUPER GREEN	MV841X
MV8410 MV8411	
MV8412	

ELECTRICAL / OPTICAL CHARACTERISTICS (T_A =25°C)

Part Number	MV8410	MV8411	MV8412	Condition
Luminous Intensity (mcd)				I _F = 20mA
Minimum	160	250	400	
Typical	240	370	600	
Forward Voltage (V)				I _F = 20mA
Maximum	2.8	2.8	2.8	
Typical	2.1	2.1	2.1	
Peak Wavelength (nm)	565	565	565	I _F = 20mA
Spectral Line Half Width (nm)	30	30	30	I _F = 20mA
Viewing Angle (°)	12	12	12	I _F = 20mA

TYPICAL PERFORMANCE CURVES

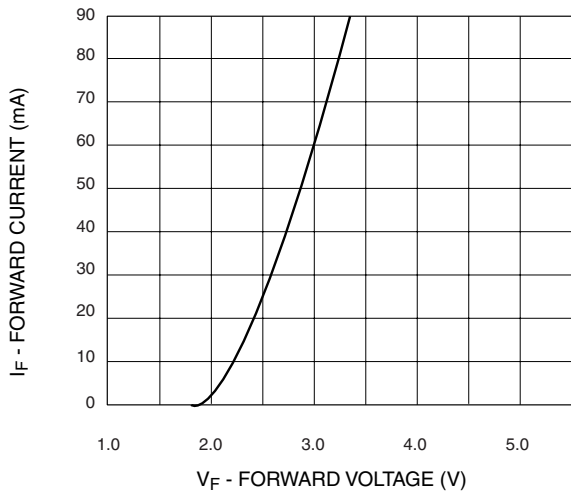


Fig. 1 Forward Current vs. Forward Voltage

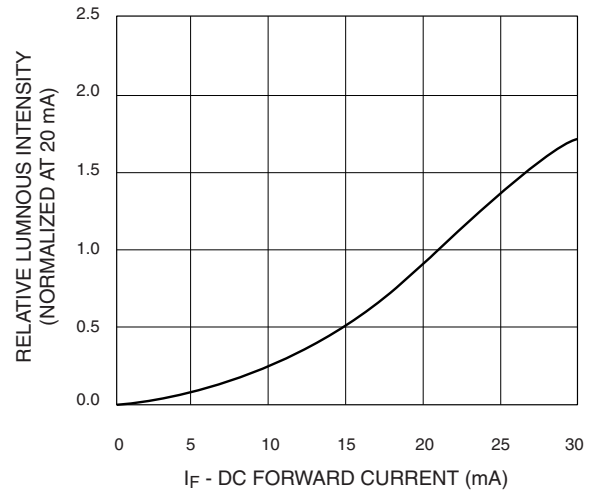


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

SUPER BRIGHT T-1 3/4 (5 mm) LED LAMP - Water Clear

SUPER GREEN
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MV841X

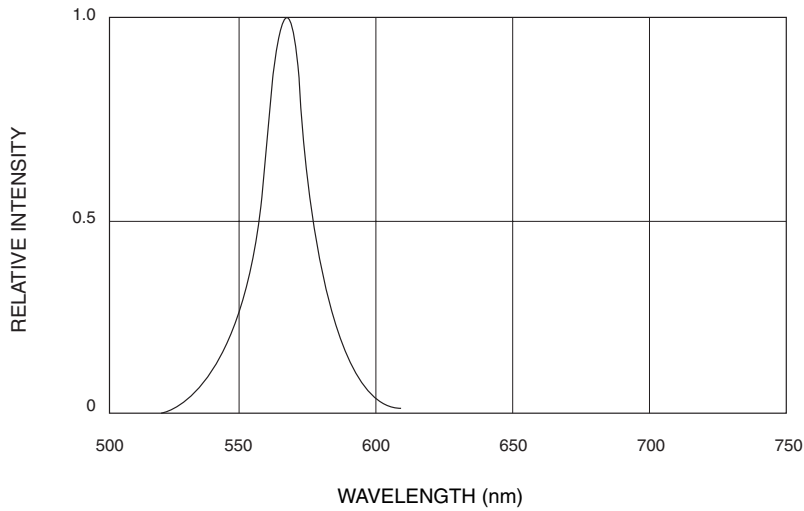


Fig. 3 Relative Intensity vs. Peak Wavelength

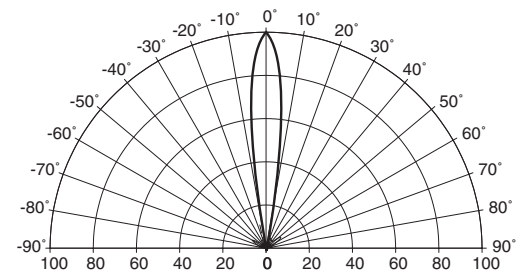
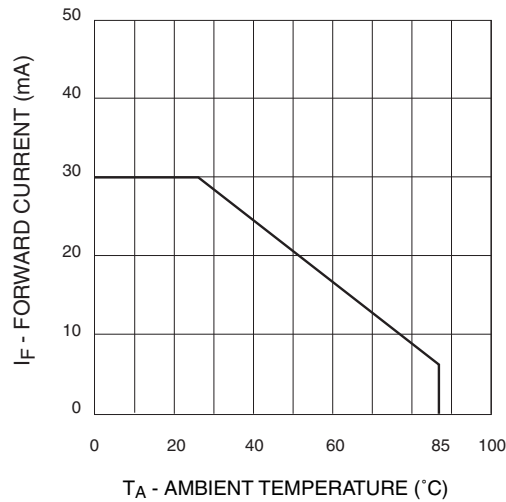


Fig. 4 Radiation Diagram



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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.