



SUPER GREEN
MV8410 MV8411
MV8412



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.

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

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.

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**

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ELECTRICAL / OPTICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)

Part Number	MV8410	MV8411	MV8412	Condition
Luminous Intensity (mcd)				$I_F = 20\text{ mA}$
Minimum	160	250	400	
Typical	240	370	600	
Forward Voltage (V)				$I_F = 20\text{ mA}$
Maximum	2.8	2.8	2.8	
Typical	2.1	2.1	2.1	
Peak Wavelength (nm)	565	565	565	$I_F = 20\text{ mA}$
Spectral Line Half Width (nm)	30	30	30	$I_F = 20\text{ mA}$
Viewing Angle ($^\circ$)	12	12	12	$I_F = 20\text{ mA}$

TYPICAL PERFORMANCE CURVES

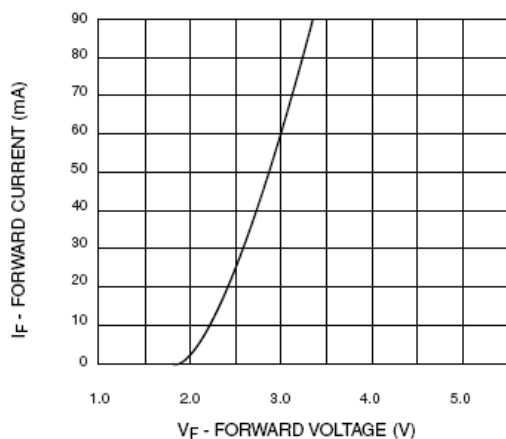


Fig. 1 Forward Current vs. Forward Voltage

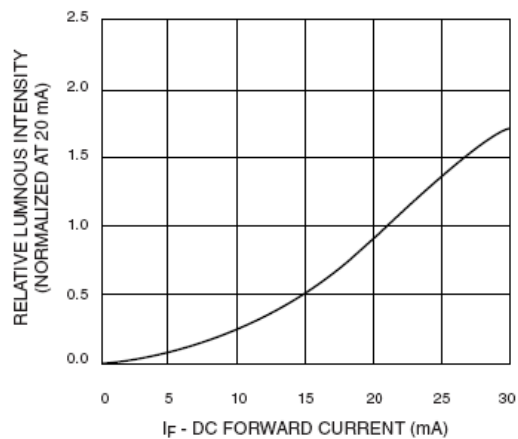


Fig. 2 Relative Luminous Intensity vs. DC Forward Current



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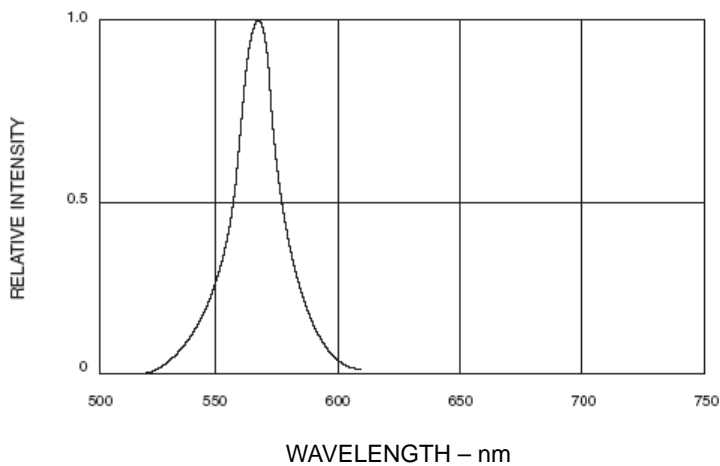
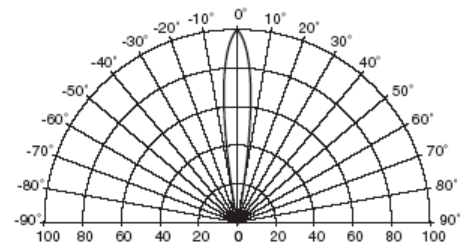


Fig. 3 Relative Intensity vs Peak Wavelength



EL. LUMINOUS INTENSITY (%)
Fig. 4 Radiation Diagram

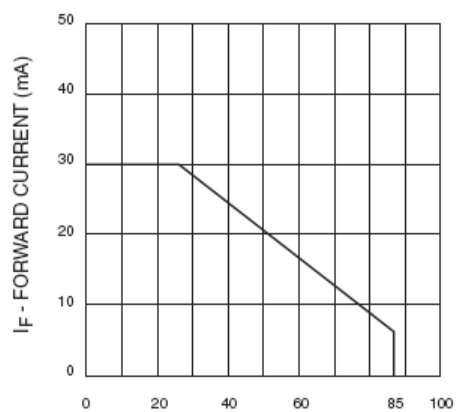


Fig. 5 Current Derating Curve



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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.

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