

PACKAGE DIMENSIONS MV841X SUPER GREEN MV8410 MV8411 0.200 (5.08) 0.180 (4.57) 5°-**MV8412** 0.350 (8.89) 0.040 (1.02) 0.330 (8.38) **FEATURES** • Popular T-1 3/4 package 1.00 (25.4) · Super high brightness suitable for outdoor MIN applications · Solid state reliability Water clear optics 0.023 (0.58) 0.017 (0.43) SQ. (2X) 0.050 (1.27) · Standard 100 mil. lead spacing NOM 0.100 (2.54) NOM FLAT DENOTES CATHODE п Ø0.230 (5.84) NOTES: DESCRIPTION 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.

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		160	mA			
(f = 1.0 KHz, Duty Factor = 1/10)	IF IF	160				
Reverse Voltage	V _R	5	V			
Power Dissipation	PD	85	mW			



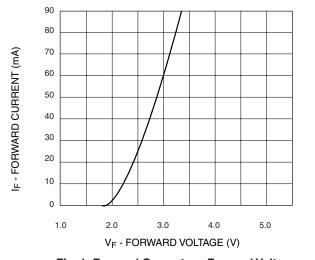
SUPER GREEN MV8410 MV8411 MV8412

2.5

MV841X

ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°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 (°)	12	12	12	$I_F = 20mA$	

TYPICAL PERFORMANCE CURVES



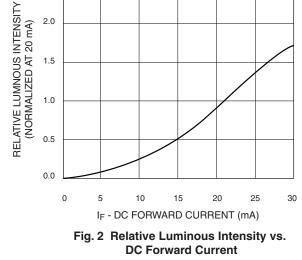


Fig. 1 Forward Current vs. Forward Voltage



SUPER GREENMV841XMV8410MV8411MV8412MV8412

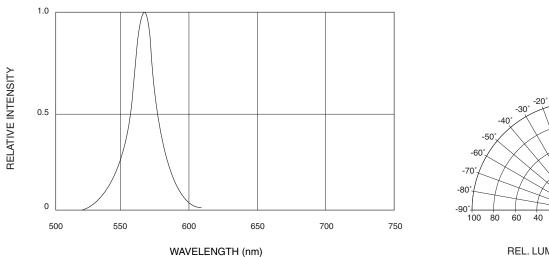
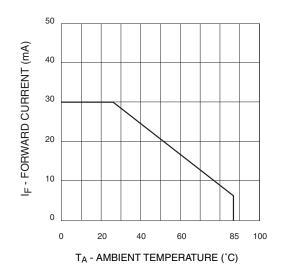


Fig. 3 Relative Intensity vs. Peak Wavelength





0° 10°

20°

30°

40

50°

60°

70°

80°

90

100

-10

Fig. 4 Radiation Diagram



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