

PACKAGE DIMENSIONS **MV801X** SUPER RED MV8013 MV8014 0.200 (5.08) 0.180 (4.57) 5°-MV8015 MV8016 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) 0.050 (1.27) · Standard 100 mil. lead spacing SQ. (2X) NOM 0.100 (2.54) NOM FLAT DENOTES CATHODE 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 MV801X series is made with an AllnGaP LED that emits red light at 640 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 +100	°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	PD	85	mW			

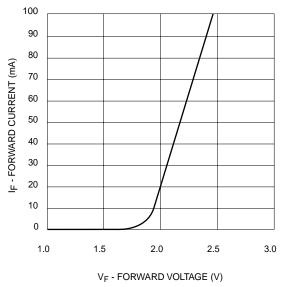


SUPER RED MV8013 MV8014 MV8015 MV8016

MV801X

Part Number	MV8013	MV8014	MV8015	MV8016	Condition
Luminous Intensity (mcd)					I _F = 20mA
Minimum	630	1000	1600	2500	
Typical	940	1500	2400	3500	
Forward Voltage (V)					I _F = 20m/
Maximum	2.4	2.4	2.4	2.4	
Typical	2.1	2.1	2.1	2.1	
Peak Wavelength (nm)	640	640	640	640	$I_F = 20 mA$
Spectral Line Half Width (nm)	20	20	20	20	I _F = 20mA
Viewing Angle (°)	12	12	12	12	I _F = 20mA

TYPICAL PERFORMANCE CURVES





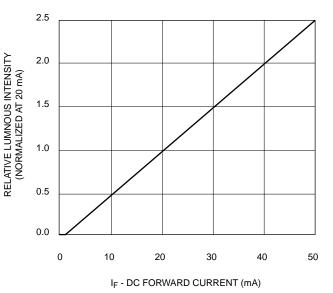


Fig. 2 Relative Luminous Intensity vs. DC Forward Current



 SUPER RED
 MV801X

 MV8013
 MV8014

 MV8015
 MV8016

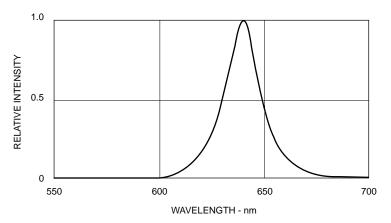


Fig. 3 Relative Intensity vs Peak Wavelength

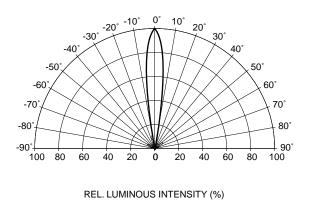
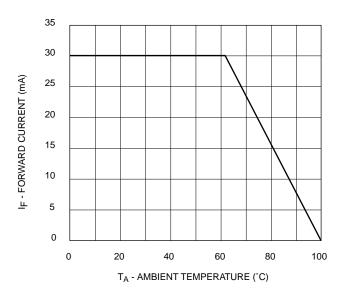
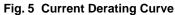


Fig. 4 Radiation Diagram







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