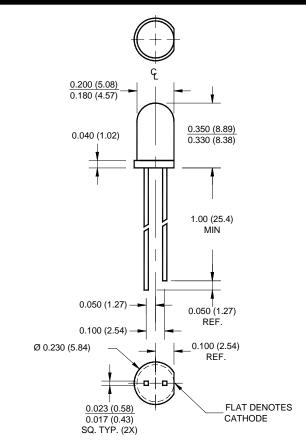


PACKAGE DIMENSIONS



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 RED MV8041 MV8042 **MV8043**

MV804X

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 viewing angle of 45° for concentrated light output. The MV804X series is made with an AllnGaP LED that emits red light at 640 nm. It is encapsulated in a water clear epoxy lens package.

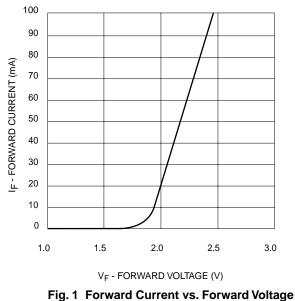
ABSOLUTE MAXIMUM RATINGS ($T_A = 25^{\circ}C$ unless otherwise specified)					
Parameter	Symbol	Rating	Unit		
Operating Temperature	T _{OPR}	-40 to +100	°C		
Storage Temperature	T _{STG}	-40 to +100	°C		
Lead Soldering Time	T _{SOL}	260 for 5 sec	°C		
Continuous Forward Current	I _F	30	mA		
Peak Forward Current		160	mA		
(f = 1.0 KHz, Duty Factor = 1/10)	IF IF	100	IIIA		
Reverse Voltage	V _R	5	V		
Power Dissipation	PD	85	mW		

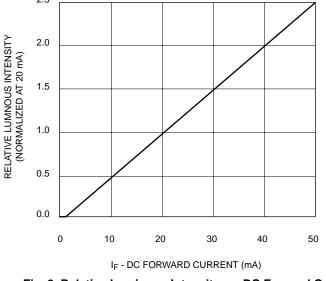


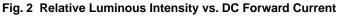
SUPER RED MV8041 MV8042 MV8043 MV804X

ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C)					
Part Number	MV8041	MV8042	MV8043	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)	640	640	640	$I_F = 20 \text{mA}$	
Spectral Line Half Width (nm)	20	20	20	I _F = 20mA	
Viewing Angle (°)	45	45	45	$I_F = 20 \text{mA}$	

TYPICAL PERFORMANCE CURVES







2.5



SUPER RED MV804X MV8041 MV8042 **MV8043**

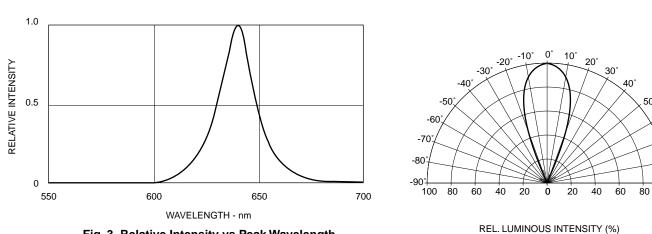


Fig. 3 Relative Intensity vs Peak Wavelength



50°

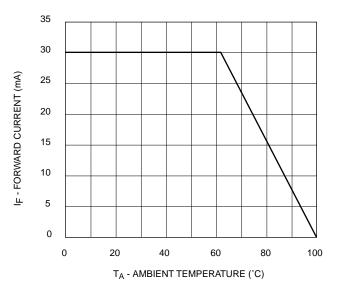
60°

70°

80°

90°

100







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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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