imall

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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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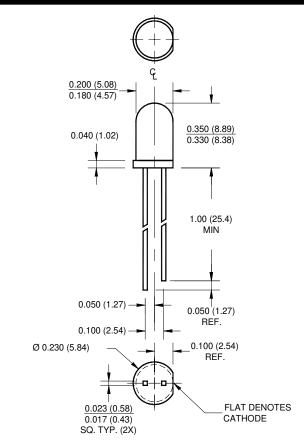
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PACKAGE DIMENSIONS



SUPER RED MV8003 MV8004 MV8005

MV800X

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

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.

DESCRIPTION

This T-1 3/4 super bright LED has a moderate viewing angle of 20° for concentrated light output. The MV800X 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		160	mA	
(f = 1.0 KHz, Duty Factor = 1/10)	I IF	100	IIIA	
Reverse Voltage	V _R	5	V	
Power Dissipation	PD	85	mW	

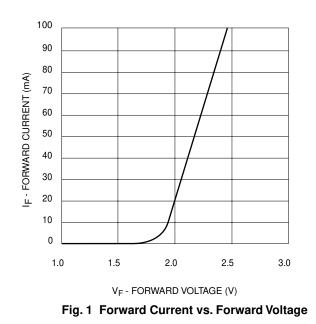


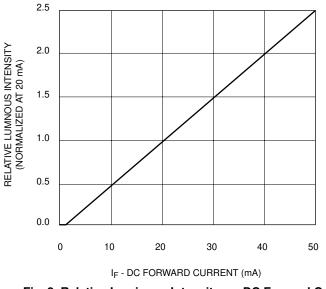
SUPER RED MV8003 MV8004 MV8005

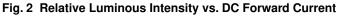
MV800X

Part Number	MV8003	MV8004	MV8005	Condition
Luminous Intensity (mcd)				I _F = 20mA
Minimum	630	1000	1600	
Typical	940	1500	2400	
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 = 20mA
Spectral Line Half Width (nm)	20	20	20	I _F = 20mA
Viewing Angle (°)	20	20	20	I _F = 20mA

TYPICAL PERFORMANCE CURVES







S



 SUPER RED
 MV800X

 MV8003
 MV8004

 MV8005

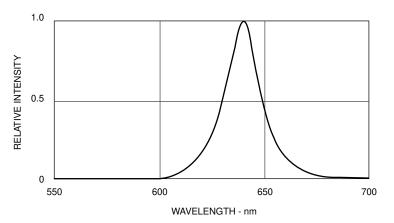
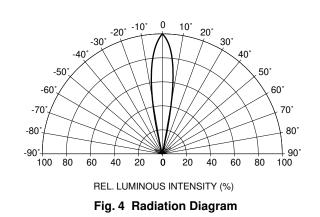


Fig. 3 Relative Intensity vs Peak Wavelength



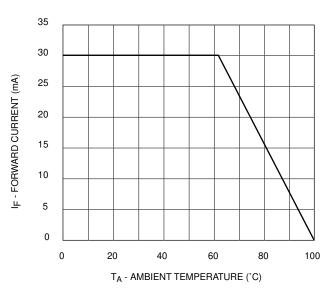


Fig. 5 Current Derating Curve



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