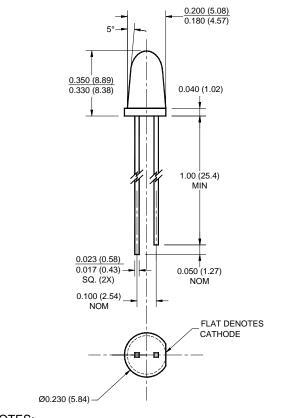


PACKAGE DIMENSIONS



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 ORANGE-REDMV881XMV8813MV8814MV8815MV8816

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 moderate viewing angle of 12° for concentrated light output. It is made with an AllnGaP LED that emits red light at 630 nm. It is encapsulated in a water clear epoxy lens package.

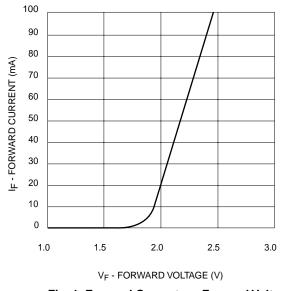
ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise specified)						
Parameter	Symbol	Rating	Unit °C			
Operating Temperature	T _{OPR}	-40 to +100				
Storage Temperature	T _{STG}	-40 to +100	°C			
Lead Soldering Time	T _{SOL}	260 for 5 sec	°C			
Continuous Forward Current	I _F	30	mA			
Peak Forward Current		200	mA			
(f = 1.0 KHz, Duty Factor = 1/10)	IF	200	I MA			
Reverse Voltage	V _R	5	V			
Power Dissipation	PD	100	mW			



SUPER ORANGE-REDMV881XMV8813MV8814MV8815MV8816

Part Number	MV8813	MV8814	MV8815	MV8816	Condition
Luminous Intensity (mcd)					I _F = 20 mA
Minimum	630	1000	1600	2500	
Typical	940	1500	2400	3500	
Forward Voltage (V)					I _F = 20 mA
Maximum	2.8	2.8	2.8	2.8	
Typical	2.1	2.1	2.1	2.1	
Peak Wavelength (nm)					I _F = 20 mA
Peak	630	630	630	630	
Dominant	623	623	623	623	
Spectral Line Half Width (nm)	20	20	20	20	I _F = 20 mA
Viewing Angle (°)	12	12	12	12	I _F = 20 mA

TYPICAL PERFORMANCE CURVES





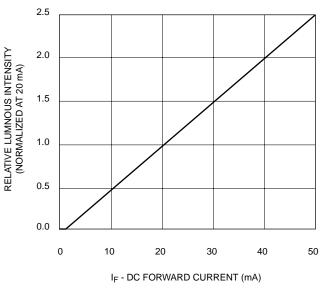


Fig. 2 Relative Luminous Intensity vs. DC Forward Current



SUPER ORANGE-RED **MV881X** MV8813 MV8814 MV8815 MV8816

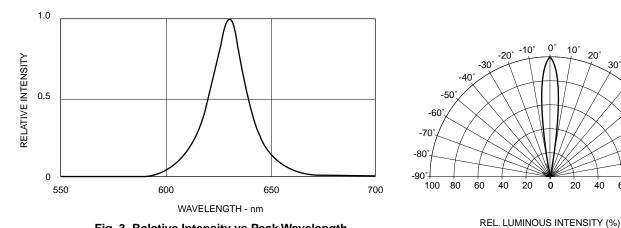


Fig. 3 Relative Intensity vs Peak Wavelength



Ò 20 40 60 80

0° 10° 20°

30°

40° 50°

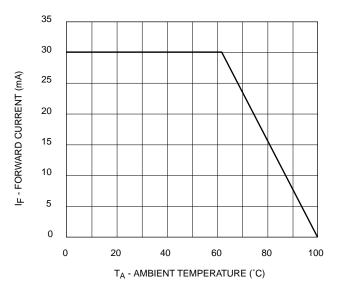
60°

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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