

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 12° for concentrated light output. It is made with an AllnGaP LED that emits orange light at 620 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	40	mA			
Peak Forward Current		160	~^^			
(f = 1.0 KHz, Duty Factor = 1/10)	IF IF	160	mA			
Reverse Voltage	V _R	5	V			
Power Dissipation	PD	100	mW			



MV871X



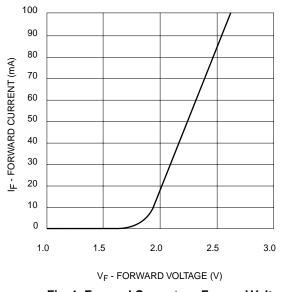
 SUPER ORANGE
 MV871X

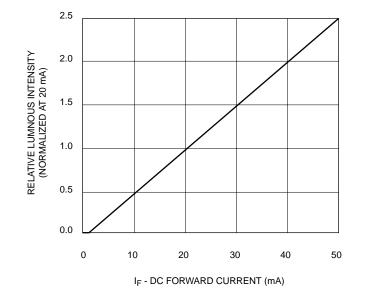
 MV8713
 MV8714

 MV8715
 MV8716

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)						
Part Number	MV8713	MV8714	MV8715	MV8716	Condition	
Luminous Intensity (mcd)					I _F = 20 mA	
SheeMinimum	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		
Wavelength (nm)					I _F = 20 mA	
Peak	620	620	620	620		
Dominant	615	615	615	615		
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





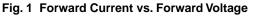


Fig. 2 Relative Luminous Intensity vs. DC Forward Current





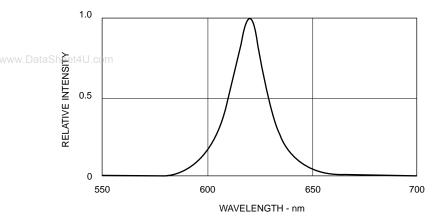
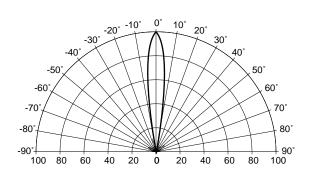
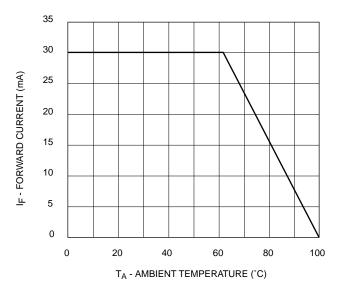


Fig. 3 Relative Intensity vs Peak Wavelength



REL. LUMINOUS INTENSITY (%)

Fig. 4 Radiation Diagram







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