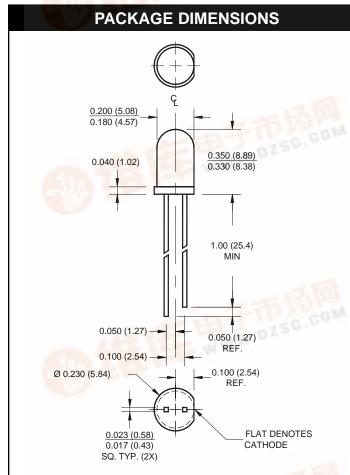


SUPER ORANGE MV8741 MV8742

MV874X





- 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 45° 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	mA	
(f = 1.0 KHz, Duty Factor = 1/10)	l 'F			
Reverse Voltage	V _R	5	V	
Power Dissipation	P _D	100	mW	



SUPER ORANGE	MV874X
MV8741 MV8742	

ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C)				
Part Number	MV8741	MV8742	Condition	
Luminous Intensity (mcd)			I _F = 20 mA	
Minimum	250	400		
Typical	370	600		
Forward Voltage (V)			I _F = 20 mA	
Maximum	2.8	2.8		
Typical	2.1	2.1		
Wavelength (nm)			I _F = 20 mA	
Peak		620		
Dominant		615		
Spectral Line Half Width (nm)		20	I _F = 20 mA	
Viewing Angle (°)		20	I _F = 20 mA	

TYPICAL PERFORMANCE CURVES

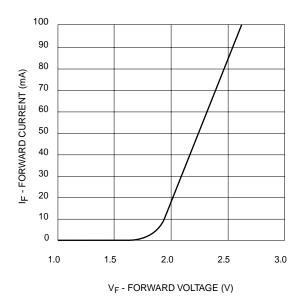


Fig. 1 Forward Current vs. Forward Voltage

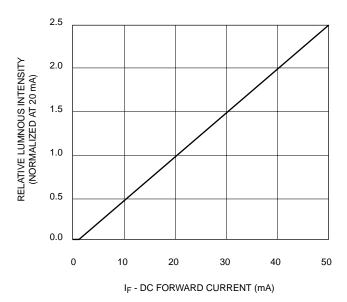


Fig. 2 Relative Luminous Intensity vs. DC Forward Current



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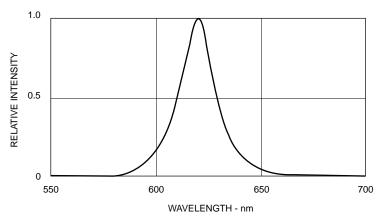
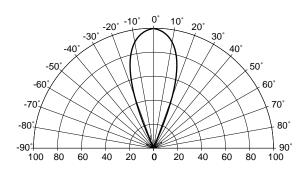


Fig. 3 Relative Intensity vs Peak Wavelength



REL. LUMINOUS INTENSITY (%)

Fig. 4 Radiation Diagram

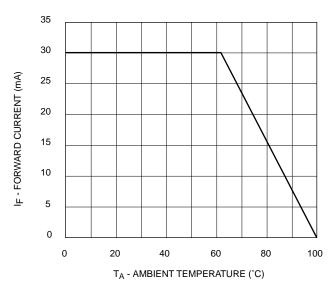


Fig. 5 Current Derating Curve



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