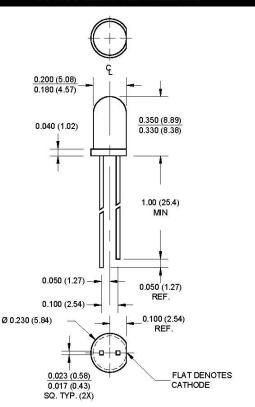


SUPER BRIGHT T-1 3/4 (5 mm) LED LAMP - Water Clear

PACKAGE DIMENSIONS



SUPER ORANGE MV8741 MV8742 MV874X

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).
- 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 AlInGaP LED that emits orange light at 620 nm. It is encapsulated in a water clear epoxy lens package.

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	l _F	40	mA
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	l _F	160	mA
Reverse Voltage	V _R	5	٧
Power Dissipation	P _D	100	mW



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SUPER ORANGE MV874X MV8741 MV8742

Part Number	MV8741	MV8742	Condition	
Luminous Intensity (mcd)			$I_F = 20 \text{ mA}$	
Minimum	250	400		
Typical	370	600		
Forward Voltage (V)			I _F = 20 mA	
Maximum	2.8	2.8		
Typical	2.1	2.1		
Peak 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

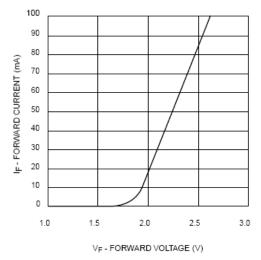


Fig. 1 Forward Current vs. Forward Voltage

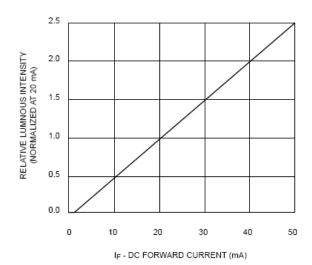


Fig. 2 Relative Luminous Intensity vs. DC Forward Current



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SUPER ORANGE MV8741 MV8742

MV874X

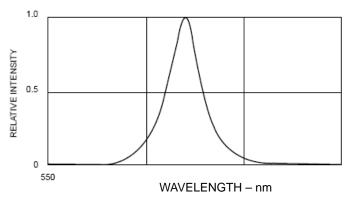
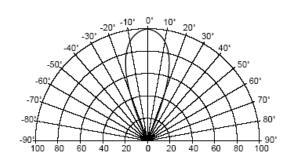


Fig. 3 Relative Intensity vs Peak Wavelength



EL. LUMINOUS INTENSITY (%) Fig. 4 Radiation Diagram

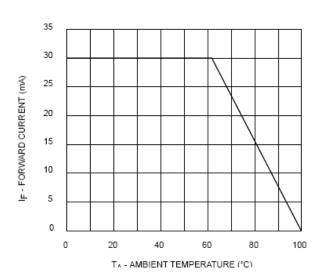


Fig. 5 Current Derating Curve



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