

1. Dimensions for all drawings are in inches (mm).

the package.

2. Lead spacing is measured where the leads emerge from

3. Protruded resin under the flange is 1.5 mm (0.059") max.

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

PACKAGE DIMENSIONS SUPER ORANGE MV8703 MV8704 MV8705 MV8706 0.200 (5.08) 0.180 (4.57) 0.350 (8.89) 0.040 (1.02) 0.330 (8.38) **FEATURES** www.DataSheet4U.com • Popular T-1 3/4 package · Super high brightness suitable for outdoor applications 1.00 (25.4) MIN · Solid state reliability Water clear optics · Standard 100 mil. lead spacing 0.050 (1.27) 0.050 (1.27) RFF 0.100 (2.54) -0.100 (2.54) Ø 0.230 (5.84) REF. FLAT DENOTES 0.023 (0.58) 0.017 (0.43) SQ. TYP. (2X) CATHODE NOTES: DESCRIPTION

This T-1 3/4 super bright LED has a moderate viewing angle of 20° 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	Symbol Rating				
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 (f = 1.0 KHz, Duty Factor = 1/10)	١ _F	160	mA			
Reverse Voltage	V _R	5	V			
Power Dissipation	PD	100	mW			

MV870X

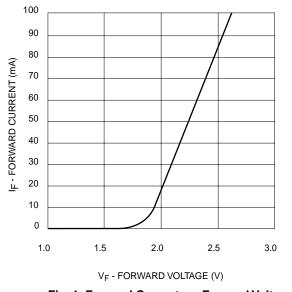


SUPER BRIGHT T-1 3/4 (5 mm) LED LAMP - Water Clear

SUPER ORANGE MV870X MV8703 MV8704 MV8705 MV8706

Part Number	MV8703	MV8704	MV8705	MV8706	Condition
Luminous Intensity (mcd)					I _F = 20 mA
heeMinimum	630	1000	1600	2500	
Typical	940	1500	2400	3500	
Forward Voltage (V)					l _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			
Dominant		615			
Spectral Line Half Width (nm)		20			I _F = 20 mA
Viewing Angle (°)		20			I _F = 20 mA

TYPICAL PERFORMANCE CURVES



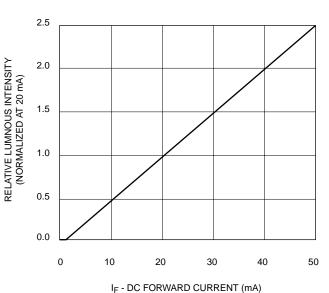


Fig. 1 Forward Current vs. Forward Voltage

Fig. 2 Relative Luminous Intensity vs. DC Forward Current



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 SUPER ORANGE
 MV870X

 MV8703
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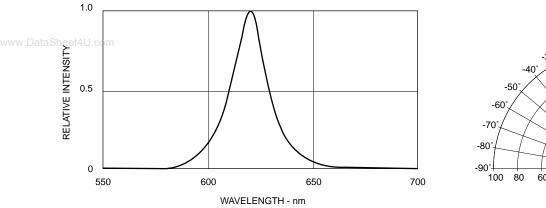
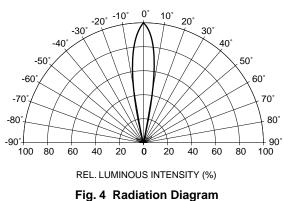


Fig. 3 Relative Intensity vs Peak Wavelength



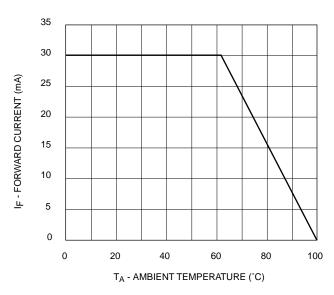


Fig. 5 Current Derating Curve



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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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