Excellent Integrated System Limited

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<u>Fairchild Semiconductor</u> <u>MV8832</u>

For any questions, you can email us directly: sales@integrated-circuit.com





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

PACKAGE DIMENSIONS 0.200 (5.08) 0.180 (4.57) 0.350 (8.89) 0.040 (1.02) 0.330 (8.38) 1.00 (25.4) MIN 0.050 (1.27) 0.050 (1.27) 0.100 (2.54) Ø 0.230 (5.84) 0.100 (2.54) REF. FLAT DENOTES 0.023 (0.58) 0.017 (0.43) SQ. TYP. (2X) CATHODE

SUPER ORANGE-RED MV883X MV8832 MV8833

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).
- 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 30° 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	
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	30	mA	
Peak Forward Current	1	200	mA	
(f = 1.0 KHz, Duty Factor = 1/10)	l _F			
Reverse Voltage	V _R	5	V	
Power Dissipation	P _D	100	mW	





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SUPER ORANGE-RED	MV883X
MV8832 MV8833	

ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C)				
Part Number	MV8832	MV8833	Condition	
Luminous Intensity (mcd)			I _F = 20 mA	
Minimum	630	1000		
Typical	940	1500		
Forward Voltage (V)			I _F = 20 mA	
Maximum	2.8	2.8		
Typical	2.1	2.1		
Wavelength (nm)			I _F = 20 mA	
Peak	630			
Dominant	623			
Spectral Line Half Width (nm)	20		I _F = 20 mA	
Viewing Angle (°)	30		$I_F = 20 \text{ mA}$	

TYPICAL PERFORMANCE CURVES

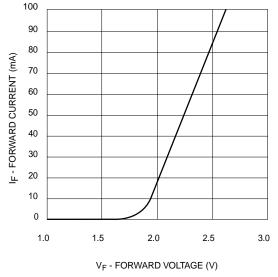


Fig. 1 Forward Current vs. Forward Voltage

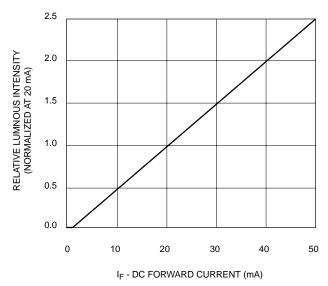


Fig. 2 Relative Luminous Intensity vs. DC Forward Current





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

SUPER ORANGE-RED M MV8832 MV8833

MV883X

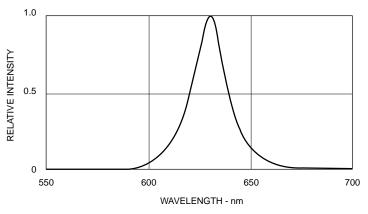
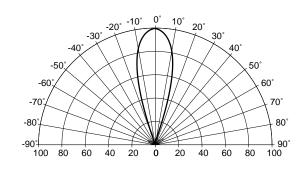


Fig. 3 Relative Intensity vs Peak Wavelength



REL. LUMINOUS INTENSITY (%)

Fig. 4 Radiation Diagram

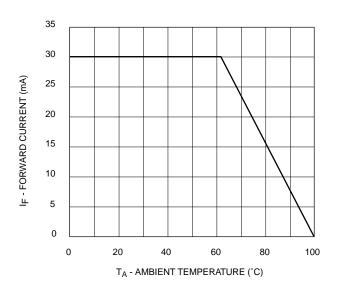


Fig. 5 Current Derating Curve



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Datasheet of MV8832 - LED RED CLEAR 5MM ROUND T/H

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- 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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