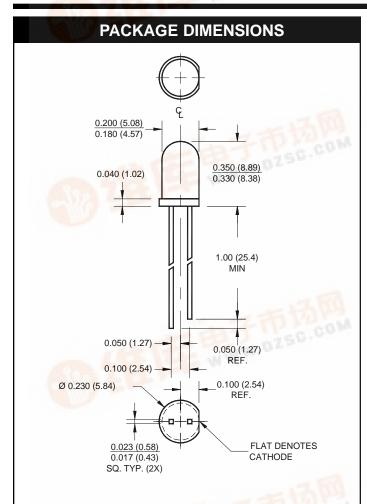


## SUPER BRIGHT T-1 3/4 (5 mm)

LED LAMP - Water Clear



SUPER YELLOW MV8331 MV8332 MV8333

**MV833X** 

#### **FEATURES**

- Popular T-1 3/4 package
- · Super high brightness suitable for outdoor WWW.DZSC.CO 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. The MV830X series is made with an AllnGaP LED that emits yellow light at 590 nm. It is encapsulated in a water clear epoxy lens package. WWW.DZSC.COM

Parameter	Symbol	Rating	Unit
Operating Temperature	T <sub>OPR</sub>	-40 to +100	°C
Storage Temperature	T <sub>STG</sub>	-40 to +100	°C
Lead Soldering Time	T <sub>SOL</sub>	260 for 5 sec	°C
Continuous Forward Current	I <sub>F</sub>	30	mA
Peak Forward Current  (f = 1.0 KHz Duty Factor = 1/10)	I <sub>F</sub>	160	mA
Reverse Voltage	$V_{R}$	5	V
Power Dissipation	P <sub>D</sub>	85	mW



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SUPER YELLOW MV8331 MV8332 MV8333 **MV833X** 

ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C)					
Part Number	MV8331	MV8332	MV8333	Condition	
Luminous Intensity (mcd)				$I_F = 20mA$	
Minimum	400	630	1000		
Typical	630	940	1500		
Forward Voltage (V)				$I_F = 20mA$	
Maximum	2.8	2.8	2.8		
Typical	2.1	2.1	2.1		
Peak Wavelength (nm)	590	590	590	$I_F = 20mA$	
Spectral Line Half Width (nm)	15	15	15	$I_F = 20mA$	
Viewing Angle (°)	30	30	30	$I_F = 20mA$	

#### **TYPICAL PERFORMANCE CURVES**

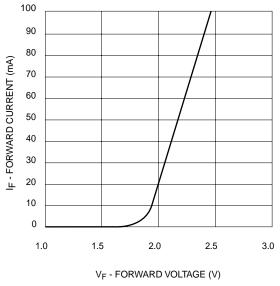


Fig. 1 Forward Current vs. Forward Voltage

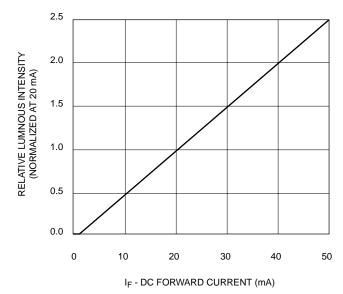


Fig. 2 Relative Luminous Intensity vs. DC Forward Current



## SUPER BRIGHT T-1 3/4 (5 mm)

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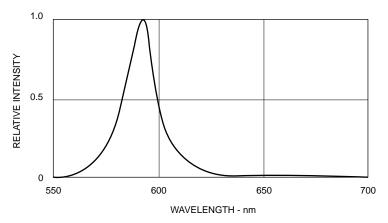
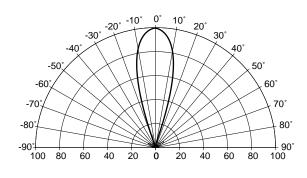


Fig. 3 Relative Intensity vs Peak Wavelength



REL. LUMINOUS INTENSITY (%)

Fig. 4 Radiation Diagram

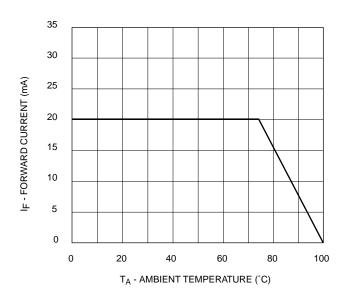


Fig. 5 Current Derating Curve



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

#### **DISCLAIMER**

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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.