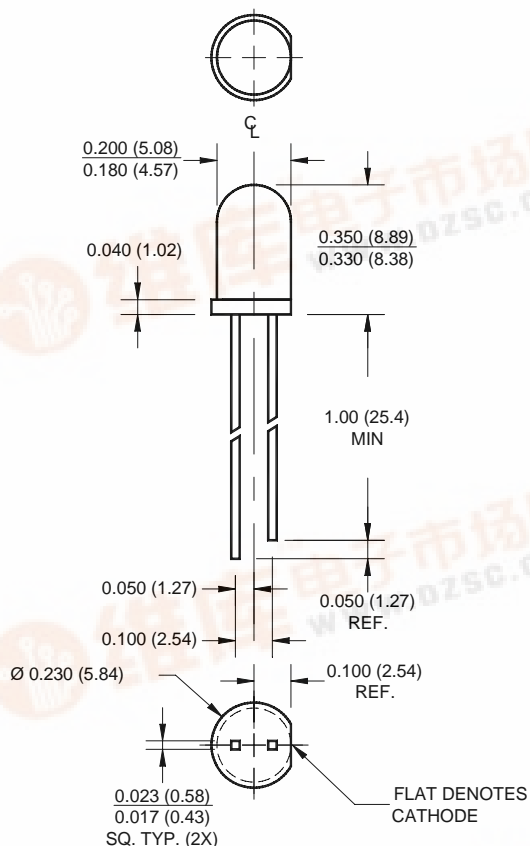


SUPER BRIGHT T-1 3/4 (5 mm)

LED LAMP - Water Clear

PACKAGE DIMENSIONS



NOTES:

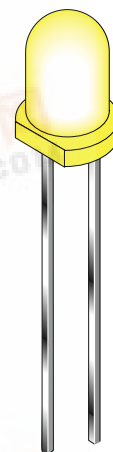
1. Dimensions for all drawings are in inches (mm).
2. Lead spacing is measured where the leads emerge from the package.
3. Protruded resin under the flange is 1.5 mm (0.059") max.

SUPER YELLOW
MV8331 MV8332
MV8333

MV833X

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

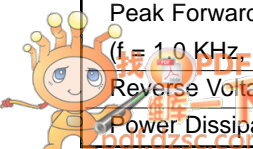


DESCRIPTION

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 AlInGaP LED that emits yellow light at 590 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 (f = 1.0 KHz, Duty Factor = 1/10)	I _F	160	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	85	mW





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

SUPER YELLOW **MV833X**
MV8331 MV8332
MV8333

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

TYPICAL PERFORMANCE CURVES

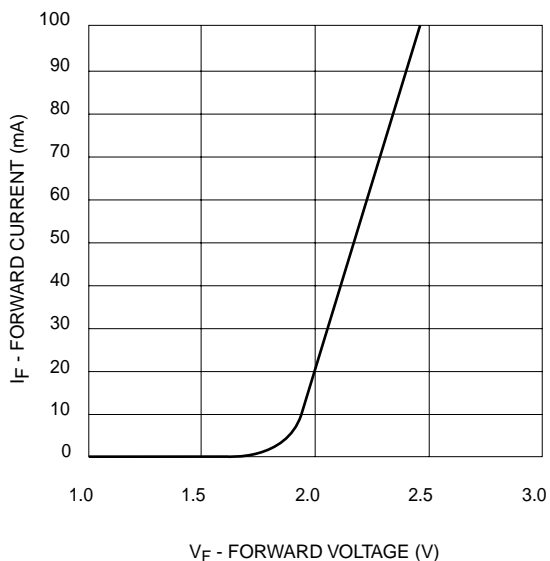


Fig. 1 Forward Current vs. Forward Voltage

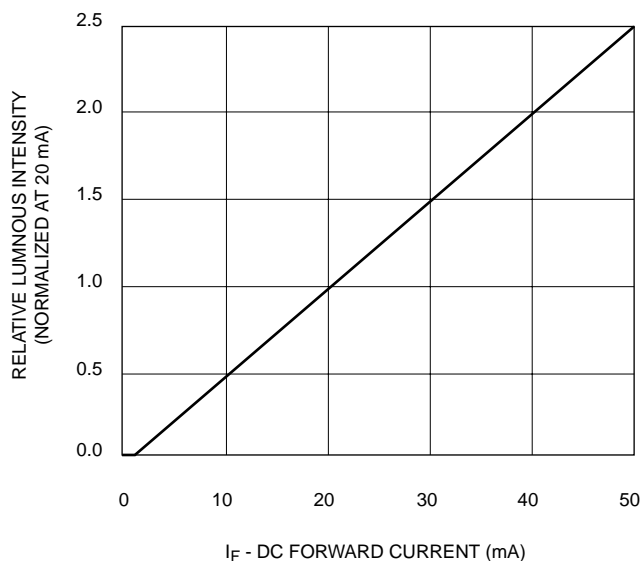


Fig. 2 Relative Luminous Intensity vs. DC Forward Current



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

SUPER YELLOW MV8331 MV8332 MV8333	MV833X
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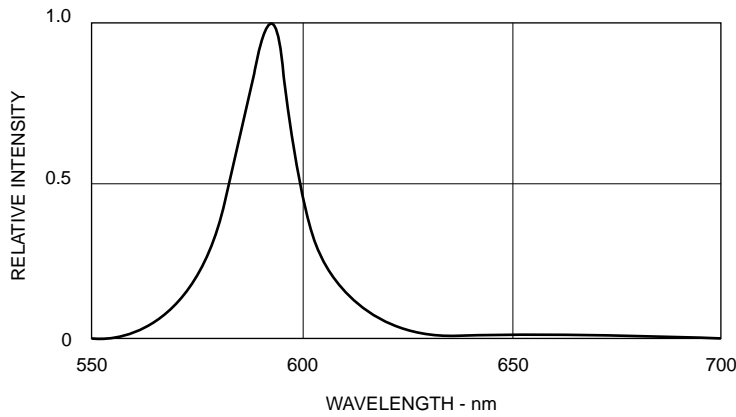


Fig. 3 Relative Intensity vs Peak Wavelength

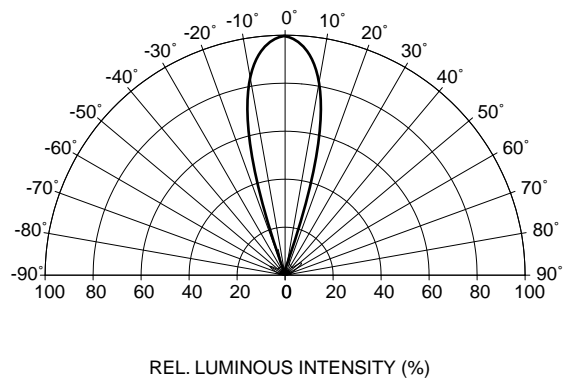


Fig. 4 Radiation Diagram

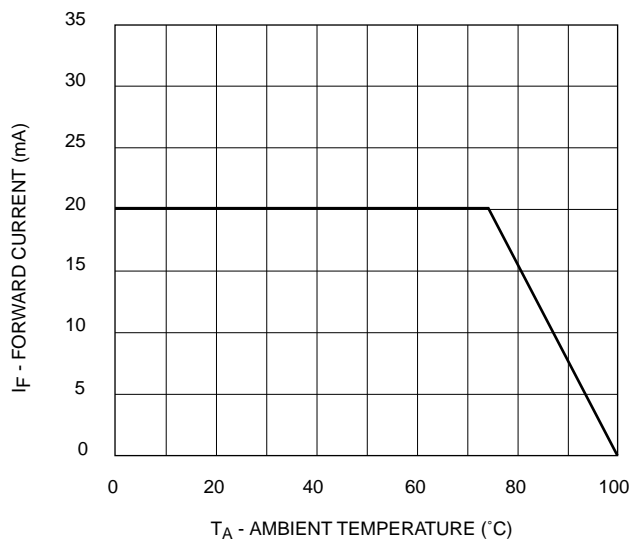


Fig. 5 Current Derating Curve