EVERLIGHT

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

PACKAGE DIMENSIONS 0.200 (5.08) 5°-0.350 (8.89) 0.330 (8.38) 0.040 (1.02) 1.00 (25.4) 0.023 (0.58) 0.050 (1.27) SQ. (2X) NOM 0.100 (2.54) NOM FLAT DENOTES CATHODE Ø0.230 (5.84)-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 MV831X MV8313 MV8314 MV8315 MV8316 MV8317 MV8317

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 narrow viewing angle of 12° for concentrated light output. The MV831X series is made with an AllnGaP LED that emits yellow light at 590 nm. It is encapsulated in a water clear epoxy lens package.

Parameter	Symbol	Rating	Unit ℃
Operating Temperature	T _{OPR}	-40 to +100	
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	Pn	85	mW





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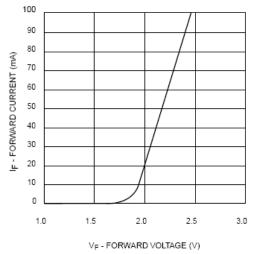
 SUPER YELLOW
 MV831X

 MV8313 MV8314
 MV8315 MV8316 MV8317

ELECTRICAL / OPTICAL CHARACTERISTICS (TA = 25°C)

Part Number	MV8313	MV8314	MV8315	MV8316	MV8317	Condition
Luminous Intensity (mcd)						I _F = 20 mA
Minimum	630	1000	1600	2500	4500	
Typical	940	1500	2400	3500	5500	
Forward Voltage (V)						I _F = 20 mA
Maximum	2.8	2.8	2.8	2.8	2.8	
Typical	2.1	2.1	2.1	2.1	2.1	
Peak Wavelength (nm)	590	590	590	590	590	$I_F = 20 \text{ mA}$
Spectral Line Half Width (nm)	15	15	15	15	15	$I_F = 20 \text{ mA}$
Viewing Angle (°)	12	12	12	12	12	I _F = 20 mA

TYPICAL PERFORMANCE CURVES



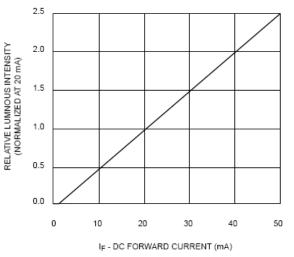


Fig. 1 Forward Current vs. Forward Voltage

Fig. 2 Relative Luminous Intensity vs. DC Forward Current



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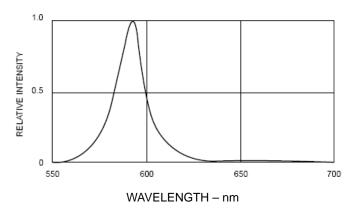


Fig. 3 Relative Intensity vs Peak Wavelength

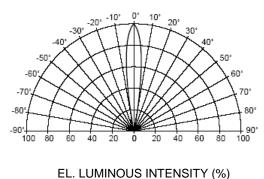


Fig. 4 Radiation Diagram

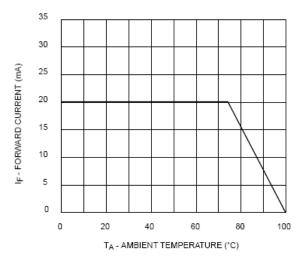


Fig. 5 Current Derating Curve



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