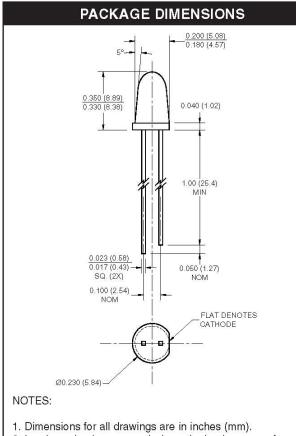


SUPER BRIGHT T-1 3/4 (5 mm) LED LAMP - Water Clear



- 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 RED MV811X MV8111 MV8112 MV8113 MV8114

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

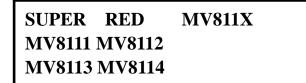
This T-1 3/4 super bright LED has a narrow viewing angle of 12° for concentrated light output. The MV811X series is made with an AlGaAs LED that emits red light at 660 nm. It is encapsulated in a water clear epoxy lens package.

Parameter	Symbol	Rating	Unit
Operating Temperature	T _{OPR}	-40 to +100	°C
Storage Temperature	T _{STG}	-40 to +100	С°
Lead Soldering Time	T _{SOL}	260 for 5 sec	0°
Continuous Forward Current	lF	30	mA
Peak Forward Current (f = 1.0 KHz, Duty Factor = 1/10)	I _F	200	mA
Reverse Voltage	V _R	5	V
Power Dissipation	PD	100	mW



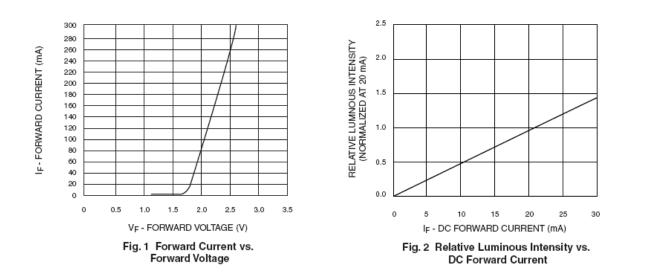


SUPER BRIGHT T-1 3/4 (5 mm) LED LAMP -Water Clear



Part Number	MV8111	MV8112	MV8113	MV8114	Condition
Luminous Intensity (mcd)					I _F = 20 mA
Minimum	250	630	1000	1600	
Typical	370	940	1500	2400	
Forward Voltage (V)					I _F = 20 mA
Maximum	2.4	2.4	2.4	2.4	
Typical	1.7	1.7	1.7	1.7	
Peak Wavelength (nm)	660	660	660	660	I _F = 20 mA
Spectral Line Half Width (nm)	20	20	20	20	I _F = 20 mA
Viewing Angle (°)	15	15	15	15	I _∈ = 20 mA

TYPICAL PERFORMANCE CURVES





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



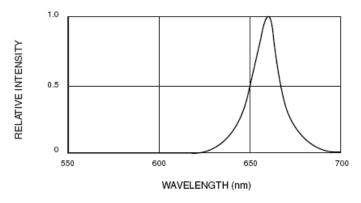
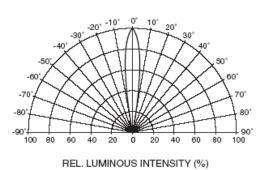


Fig. 3 Relative Intensity vs. Peak Wavelength



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Fig. 4 Radiation Diagram
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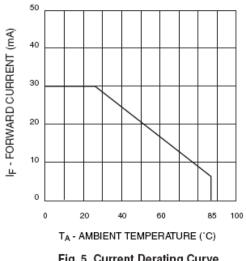


Fig. 5 Current Derating Curve



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

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