

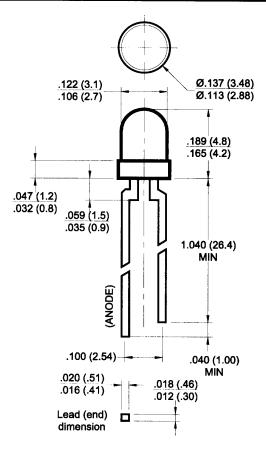
# SUPER BRIGHT T-1 (3mm) LED LAMP - Water Clear

Green

**MV7441** 

**MV7442** 

### PACKAGE DIMENSIONS



### **DESCRIPTION**

These T-1 LEDs have a wide viewing angle of 60° and are encapsulated in an epoxy package with a water clear lens. They are constructed with GaP LEDs and emit a peak wavelength of 570 nm.

#### **FEATURES**

- Popular T-1 package.
- Low drive current.
- •Solid State reliability.
- •Super high brightness suitable for outdoor applications.
- Water clear optics.
- Standard 100 mil. Lead spacing.

Note: 1) All dimensions are in inches (mm).

- Lead spacing is measured where the leads emerge from the package.
- 3) Protruded resin under the flange is 1.5mm (0.059") max.

## ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise specified)

DC forward current (I <sub>F</sub> )	30 mA
Peak forward current (I <sub>F</sub> ) @ f = 1.0 KHz, Duty factor = 1/10	160 mA
Power dissipation (P <sub>d</sub> )	85 mW
Reversed voltage (V <sub>R</sub> ) I <sub>R</sub> = 10 µA	5 V
Operating temperature range	-40°C to + 85°C
Storage temperature range	
Lead soldering time	

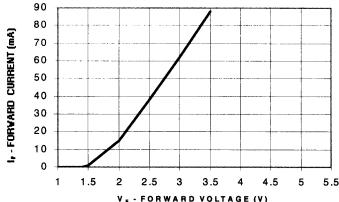


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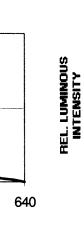
# ELECTRO-OPTICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise specified)

			Test	
Part Number:	<u>MV7441</u>	<u>MV7442</u>	<u>Condition</u>	
Luminous intensity (mcd)			I <sub>F</sub> = 20 mA	
Minimum	100	160	, ==	
Typical	150	240		
Forward voltage (V <sub>F</sub> )			I <sub>F</sub> = 20 mA	
Typical	2.1	2.0		
Maximum	2.8	2.8		
Peak Wavelength	570	570	I <sub>F</sub> = 20 mA	
Spectral line half width (nm)	30	30	I <sub>F</sub> = 20 mA	
Viewing angle	60	60	I <sub>F</sub> = 20 mA	

## TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES (TA = 25°C)



V<sub>F</sub> · FORWARD VOLTAGE (V)
Fig 1. Foward Current vs. Forward Voltage



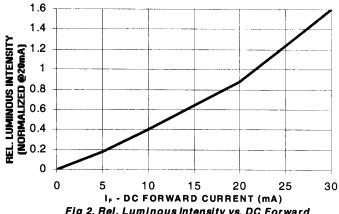


Fig 2. Rel. Luminous Intensity vs. DC Forward

Current

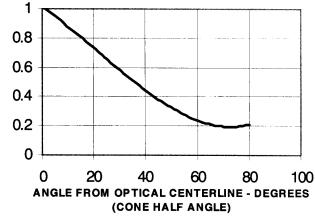


Fig 4. Rel. Luminous Intensity vs. Angular
Displacement

580

600

620

560

0 <u>→</u> 520

540

REL. INTENSITY

0.5



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