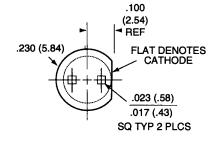


## SUPER BRIGHT T-1 ¾ (5 mm) LED LAMP – Water Clear

WHITE MV8W00

#### PACKAGE DIMENSIONS

## .350 (8.89) .330 (8.38) .050 (1.27) REF Y .050 (1.27) .050 (1.27) .050 (1.27) .100 (2.54)



#### **DESCRIPTION**

This T-1 ¾ white LED has a water clear lens and provides a viewing angle of 20°. It utilizes a GaN or InGaN blue LED chip with a phosphorous powder coating to produce the white light.

#### **FEATURES**

- Popular T-1 ¾ package
- Fluorescent light emission
- Standard 100 mil. lead spacing
- Emission color:

X = 0.31

Y = 0.32

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

- 2) Lead spacing is measured where the leads emerge from the package.
- 3) Protruded resin under the flange is 0.059" (1.5mm) max.
- 4) All tolerances are  $\pm$  0.010" (0.25mm) unless otherwise noted.

#### ABSOLUTE MAXIMUM RATINGS (TA=25°C unless otherwise specified)

DC Forward Current (I <sub>F</sub> )	30 mA 100 mA	
Peak Forward Current (I <sub>F</sub> ) @ f = 100Hz, Duty factor = 1/10		
Power Dissipation (P <sub>d</sub> )	120 mW	
Operating Temperature Range	-30°C to +80°C	
Storage Temperature Range	-40°C to +100°C	
Lead Soldering Time (1/16" from body)	3 secs @ 260°C	



## SUPER BRIGHT T-1 ¾ (5 mm) **LED LAMP – Water Clear**

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

Part Number:		MV8W00	Test Condition
Luminous Intensity (mcd)	Testing Condition @ 550nm		$I_{\rm F} = 20  \text{mA}$
	Minimum	1300	·
	Typical	2500	
Forward Voltage (V)			$I_E = 20 \text{ mA}$
	Typical	3.8	·
	Maximum	5.0	
Peak Wavelength (nm)		550	$I_F = 20 \text{ mA}$
Chromaticity Coordinates			$I_{\rm F} = 10  \rm mA$
	Typical	X = 0.31  Y = 0.32	· ·
Reverse Breakdown Voltage (V)		5	$I_{B} = 10 \mu A$
Viewing Angle (Deg.)		20	$I_{\rm F} = 20  \text{mA}$

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

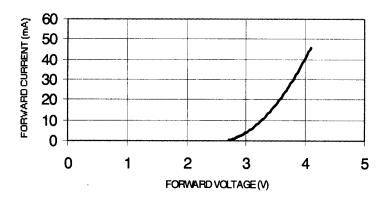


Fig 1. Forward Voltage vs. Forward Current

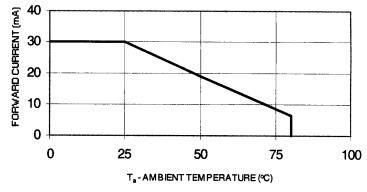


Fig 2. Forward Current vs. Ambient Temperature

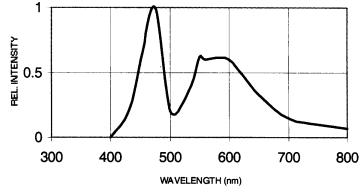


Fig 3. Rel. Intensity vs. Wavelength

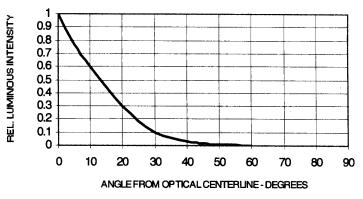


Fig 4. Rel. Intensity vs. Angular Displacement



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

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