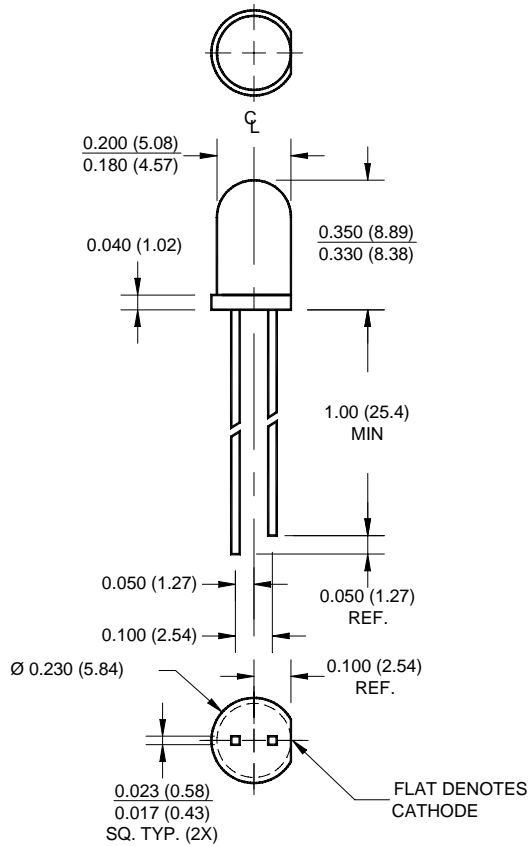


PACKAGE DIMENSIONS



NOTES:

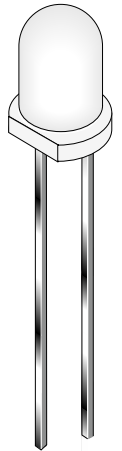
1. Dimensions for all drawings are in inches (mm).
2. Lead spacing is measured where the leads emerge from the package.
3. Protruded resin under the flange is 1.5 mm (0.059") max.

WHITE

MV8V00

FEATURES

- Popular T-1 3/4 package
- Fluorescent light emission
- Standard 100 mil. lead spacing
- Emission color:
X = 0.30
Y = 0.32



DESCRIPTION

This T-1 3/4 white LED has a water clear lens and provides a viewing angle of 20°. It utilizes a GaN blue LED chip with a phosphorous powder coating to produce white light.

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Operating Temperature	T_{OPR}	-30 to +80	$^\circ\text{C}$
Storage Temperature	T_{STG}	-40 to +100	$^\circ\text{C}$
Lead Soldering Time	T_{SOL}	260 for 5 sec	$^\circ\text{C}$
Continuous Forward Current	I_F	30	mA
Peak Forward Current ($f = 1.0$ KHz, Duty Factor = 1/10)	I_F	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	120	mW

WHITE	MV8V00
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ELECTRICAL / OPTICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)		
Part Number	MV8V00	Condition
Luminous Intensity (mcd)		$I_F = 20\text{mA}$
Minimum	300	
Typical	500	
Forward Voltage (V)		$I_F = 20\text{mA}$
Maximum	4.5	
Typical	3.5	
Peak Wavelength (nm)	550	$I_F = 20\text{mA}$
Chromatic Coordinates	X = 0.30, Y = 0.32	$I_F = 20\text{mA}$
Viewing Angle ($^\circ$)	20	$I_F = 20\text{mA}$

TYPICAL PERFORMANCE CURVES

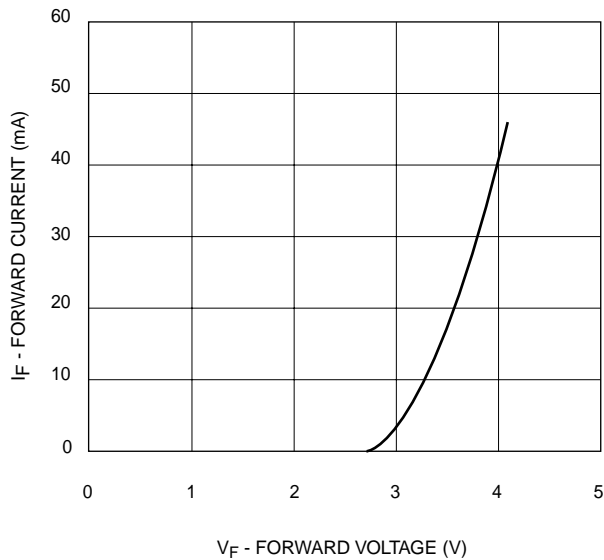


Fig. 1 Forward Current vs. Forward Voltage

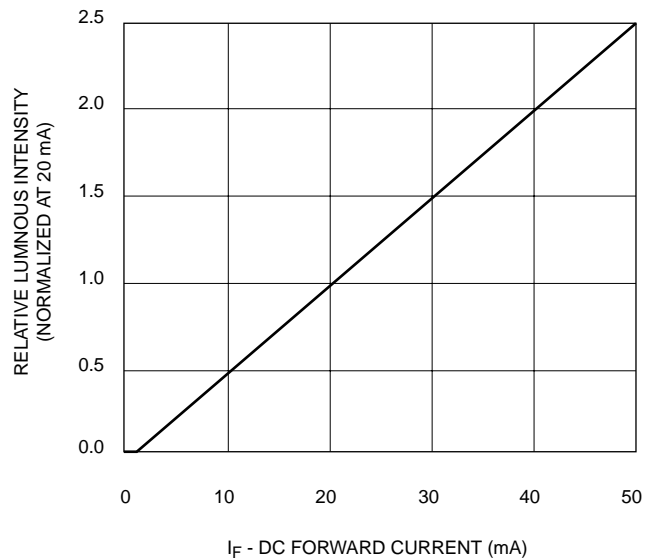


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

WHITE

MV8V00

TYPICAL PERFORMANCE CURVES

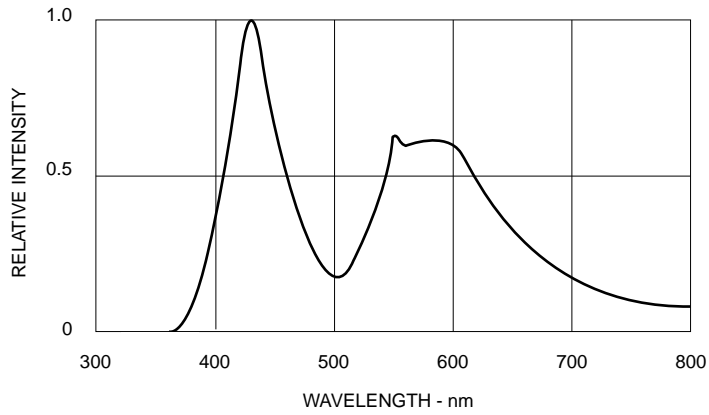


Fig. 3 Relative Intensity vs Peak Wavelength

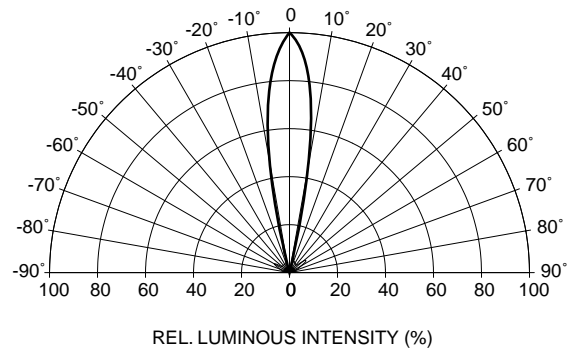


Fig. 4 Radiation Diagram

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