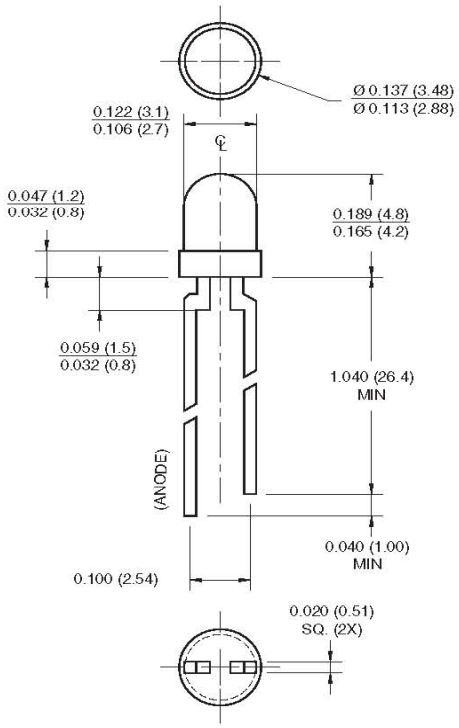
T-100 (3 mm) LED LAMP

Green — MV7442

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 1.5mm (0.059") max.

DESCRIPTION

This T-100 green LED has a moderate viewing angle of 45°. It is encapsulated in an epoxy package with a water clear lens. The green diode chip is constructed with GaP technology and emits a dominant wavelength of 570nm.

FEATURES

- Popular T-1 package
- Solid state reliability
- Water clear optics
- Standard 100 mil. lead spacing

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ABSOLUTE MAXIMUM RATINGS (T_A = 25° C unless otherwise specified)			
Parameter	Symbol	Rating	Unit
Operating Temperature	T_{OPR}	−40 to +85	° C
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_{FM}	120	mA
Reverse Voltage (I_R = 10 μA)	V_R	5	V
Power Dissipation	P_D	85	mW

ELECTRICAL / OPTICAL CHARACTERISTICS (T_A =25° C)		
Part Number	MV7442	Condition
Luminous Intensity (mcd) Minimum Typical	80 120	I_F = 20 mA
Forward Voltage (V) Maximum Typical	2.8 2.1	I_F = 20 mA
Wavelength (nm) Peak Dominant	565 570	I_F = 20 mA
Spectral Line Half Width (nm)	30	I_F = 20 mA
Viewing Angle (°)	45	I_F = 20 mA

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TYPICAL PERFORMANCE CURVES

Fig.1 Forward Current vs. Forward Voltage

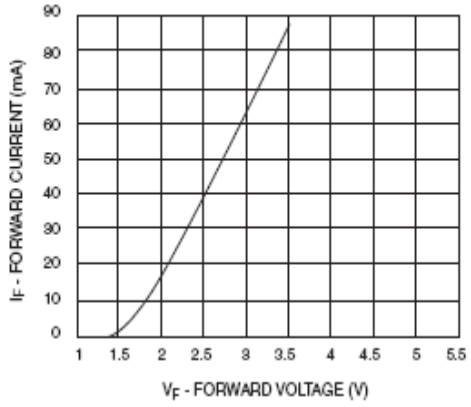


Fig.2 Relative Luminous Intensity vs. DC Forward Current

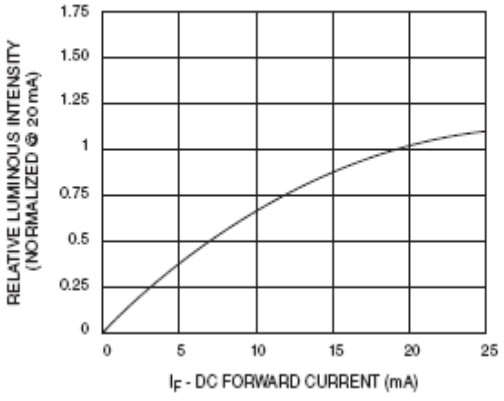


Fig.3 Relative Intensity vs. Peak Wavelength

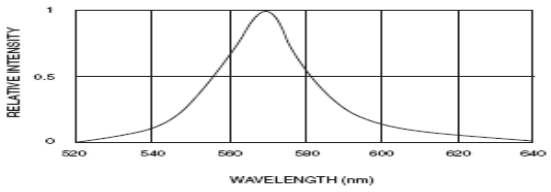


Fig. 4 Radiation Diagram

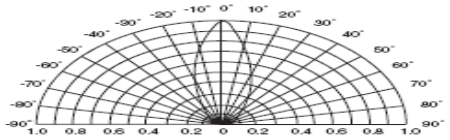
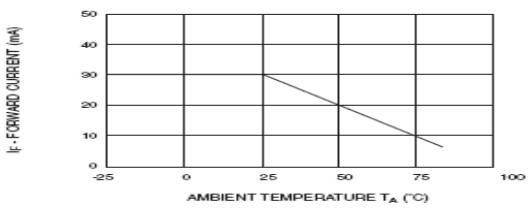


Fig.5 Current Derating Curve



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