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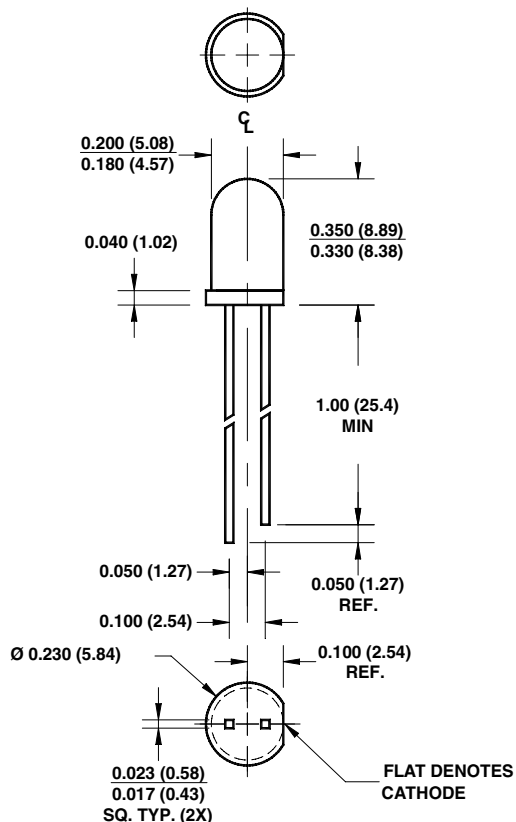
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sales@integrated-circuit.com



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

PACKAGE DIMENSIONS



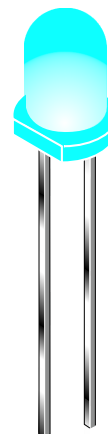
NOTES:

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.

SUPER BLUE-GREEN **MV8G0X**
MV8G01
MV8G03

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 moderate viewing angle of 20° for concentrated light output. It is made with an InGaN LED that emits blue-green light at 502 nm. It is encapsulated in a water clear epoxy lens package.

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

Parameter	Symbol	Rating	Unit
Operating Temperature	T_{OPR}	-20 to +80	$^\circ\text{C}$
Storage Temperature	T_{STG}	-30 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 ($f = 1.0 \text{ KHz}$, Duty Factor = 1/10)	I_F	150	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	120	mW



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SUPER BLUE-GREEN **MV8G0X**
MV8G01
MV8G03

ELECTRICAL / OPTICAL CHARACTERISTICS (T_A = 25°C)

Part Number	MV8G01	MV8G03	Condition
Luminous Intensity (mcd)			I _F = 20 mA
Minimum	1500	3000	
Typical	1900	3500	
Forward Voltage (V)			I _F = 20 mA
Maximum	4.2	4.2	
Typical	3.6	3.6	
Wavelength (nm)			I _F = 20 mA
Peak		502	
Dominant		505	
Spectral Line Half Width (nm)		40	I _F = 20 mA
Viewing Angle (°)		20	I _F = 20 mA

TYPICAL PERFORMANCE CURVES

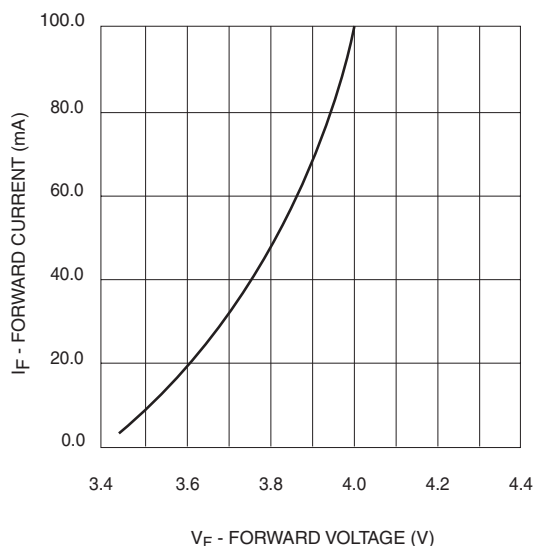


Fig. 1 Forward Current vs. Forward Voltage

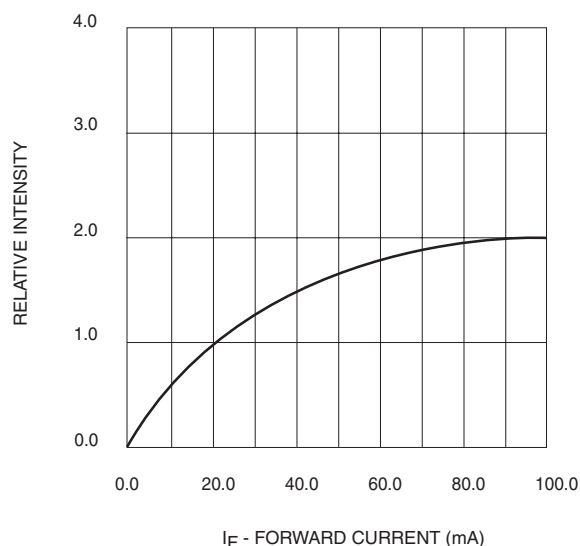


Fig. 2 Relative Luminous Intensity vs. Forward Current



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SUPER BLUE-GREEN	MV8G0X
MV8G01	
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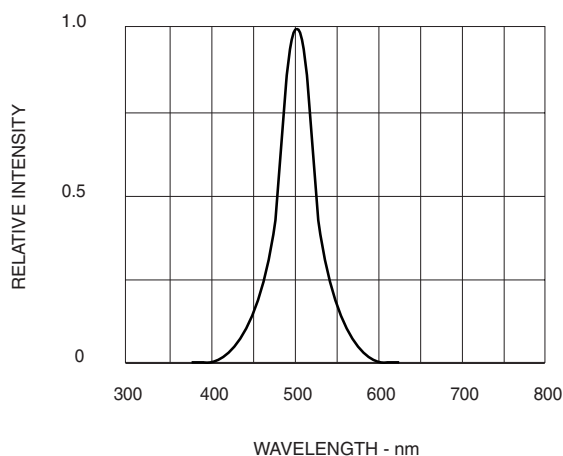


Fig. 3 Relative Luminous Intensity vs. Wavelength

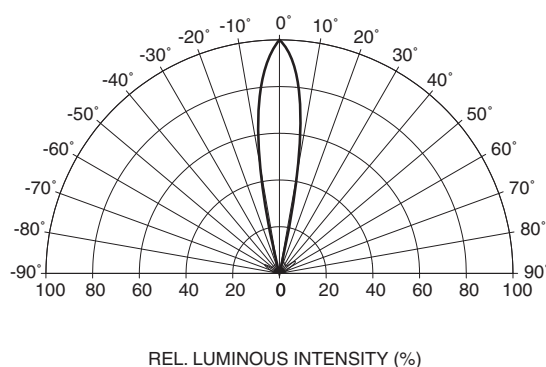


Fig. 4 Radiation Diagram



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