Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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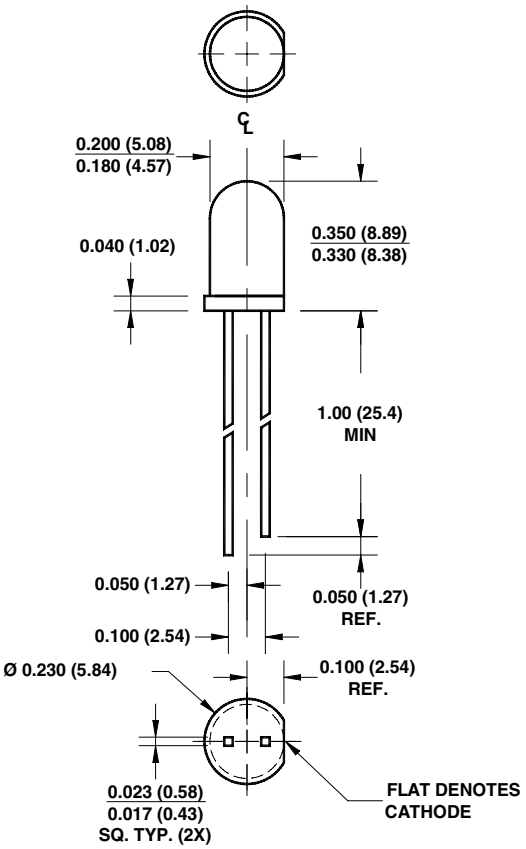
FAIRCHILD
SEMICONDUCTOR™

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

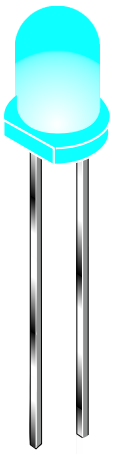
SUPER BLUE-GREEN **MV8G0X**
MV8G01
MV8G03

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.



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°C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Operating Temperature	T_{OPR}	-20 to +80	°C
Storage Temperature	T_{STG}	-30 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_F	150	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	120	mW

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

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

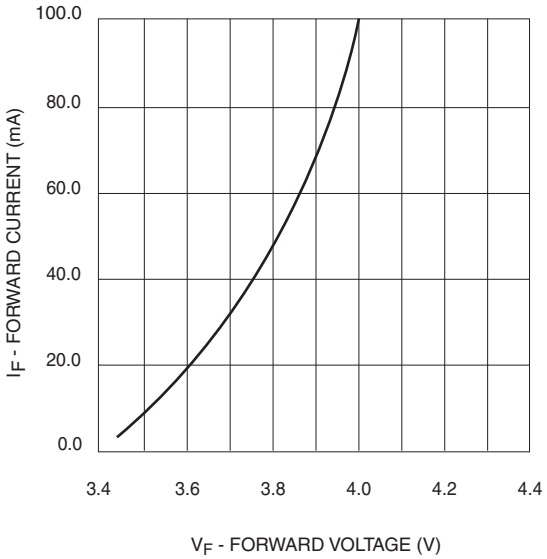


Fig. 1 Forward Current vs. Forward Voltage

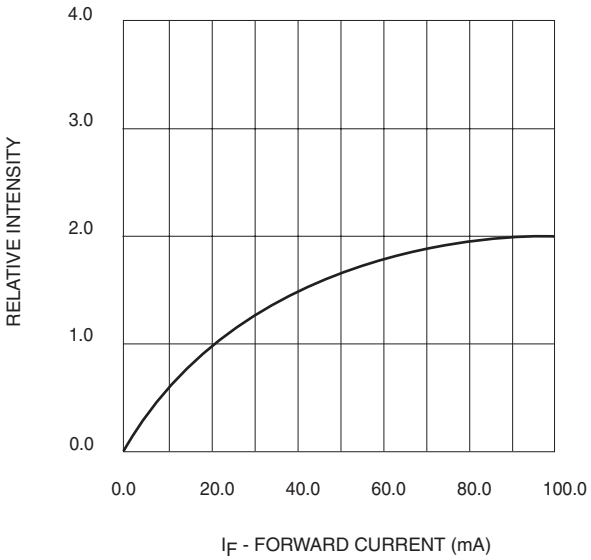


Fig. 2 Relative Luminous Intensity vs. Forward Current

SUPER BLUE-GREEN MV8G0X
MV8G01
MV8G03

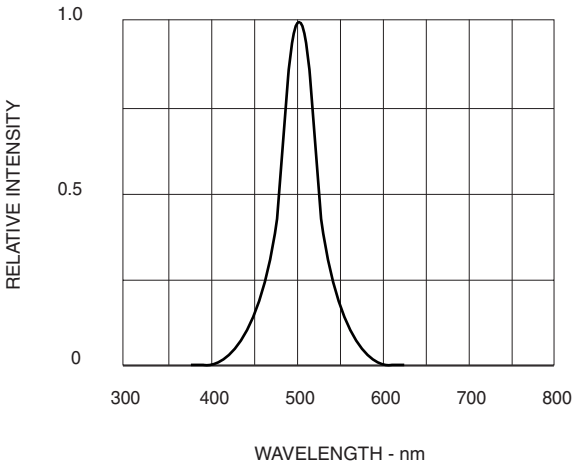


Fig. 3 Relative Luminous Intensity vs. Wavelength

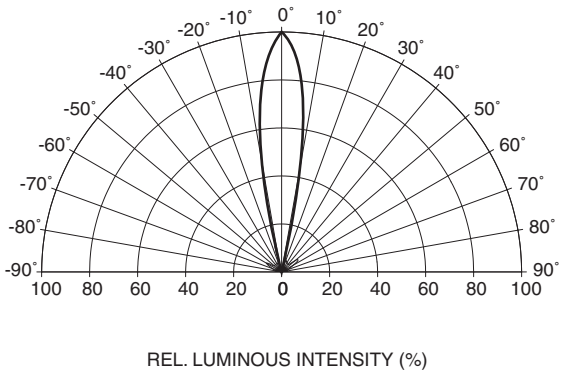


Fig. 4 Radiation Diagram

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.