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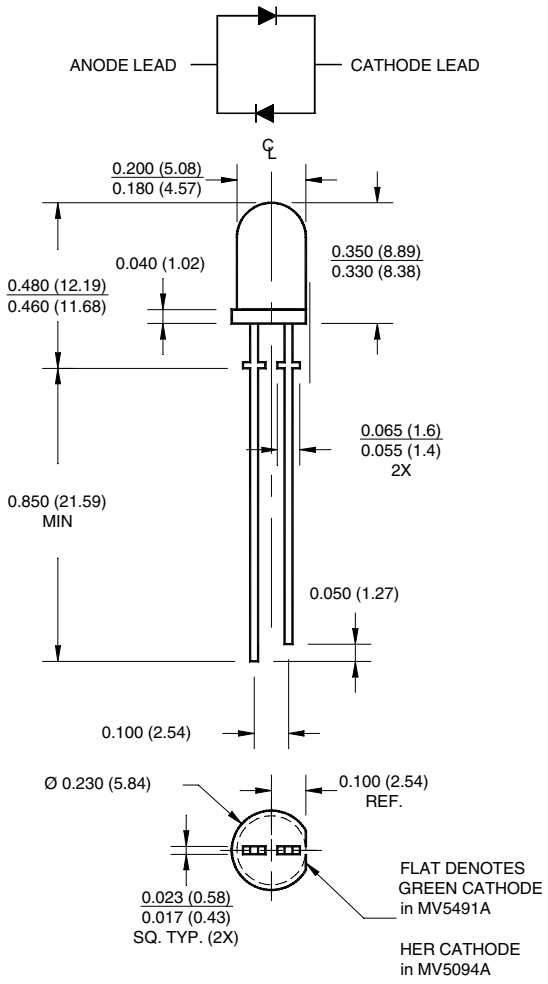
FAIRCHILD SEMICONDUCTOR™

BIPOLAR T-1 3/4 (5mm)
LED LAMP - DIFFUSED

AlGaAs RED / HER **MV5094A**
AlGaAs RED / GREEN **MV5491A**

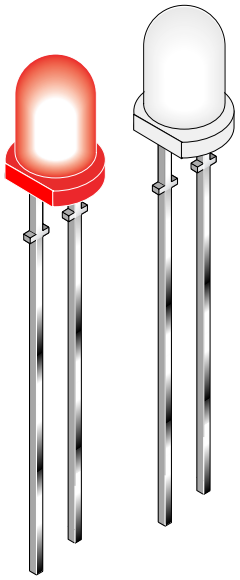
PACKAGE DIMENSIONS



NOTE:
Dimensions are in inches (mm).

FEATURES

- Popular T-1 3/4 package
- Wide viewing angle
- Solid state reliability



DESCRIPTION

The MV5X9XA is a two-leaded bipolar T-1 3/4 (5mm) lamp with standoff. Each lamp comes with a white diffused lens with a viewing angle of 75°.

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

Parameter	AlGaAs Red/HER MV5094A	AlGaAs Red/Green MV5491A	Units
Continuous Forward Current - I_F	30/30	30/30	mA
Peak Forward Current - I_F (f = 1.0 KHz, Duty Factor = 1/10)	90	90	mA
Reverse Voltage - V_R (I_R = 10 µA)	5	5	V
Power Dissipation - P_D	120	120	mW
Operating Temperature - T_{OPR}	-40 to +100		°C
Storage Temperature - T_{STG}	-40 to +100		°C
Lead Soldering Time - T_{SOL}			
Wave	260 for 5 sec		°C
Reflow	240 for 5 sec		

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ELECTRICAL / OPTICAL CHARACTERISTICS (T_A =25°C)

Part Number	AlGaAs Red/HER MV5094A	AlGaAs Red/Green MV5491A	Condition
Luminous Intensity (mcd)			I_F = 20 mA
Minimum	2/2	2/2	
Typical	5/5	5/5	
Forward Voltage (V)			I_F = 20 mA
Maximum	2.8/2.8	2.8/2.8	
Typical	2.0/2.0	2.0/2.0	
Peak Wavelength (nm)	660/635	660/565	I_F = 20 mA
Spectral Line Half Width (nm)	20/45	20/30	I_F = 20 mA
Viewing Angle (°)	75	75	I_F = 20 mA

TYPICAL PERFORMANCE CURVES

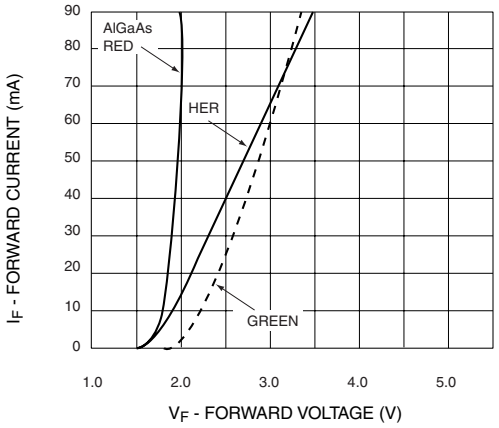

Fig. 1 Forward Current vs. Forward Voltage

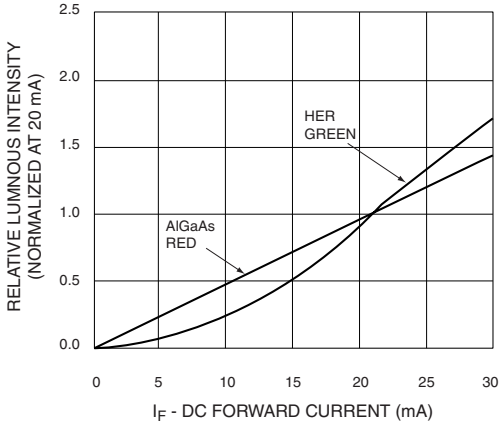

Fig. 2 Relative Luminous Intensity vs. DC Forward Current

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TYPICAL PERFORMANCE CURVES

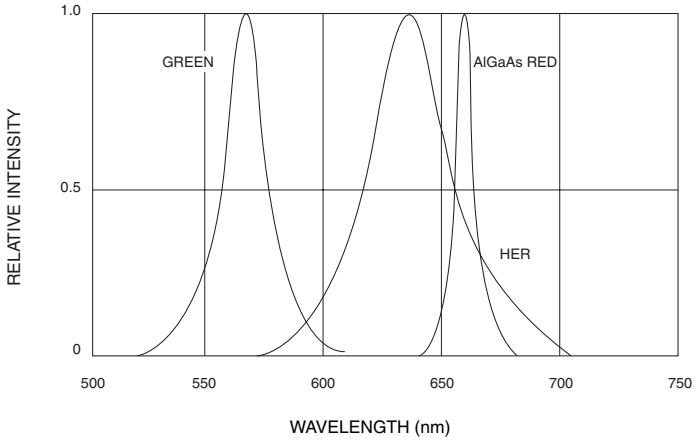


Fig. 3 Relative Intensity vs. Peak Wavelength

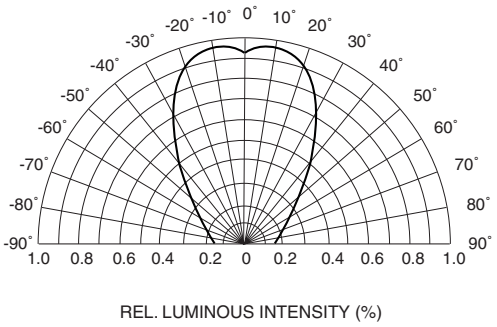
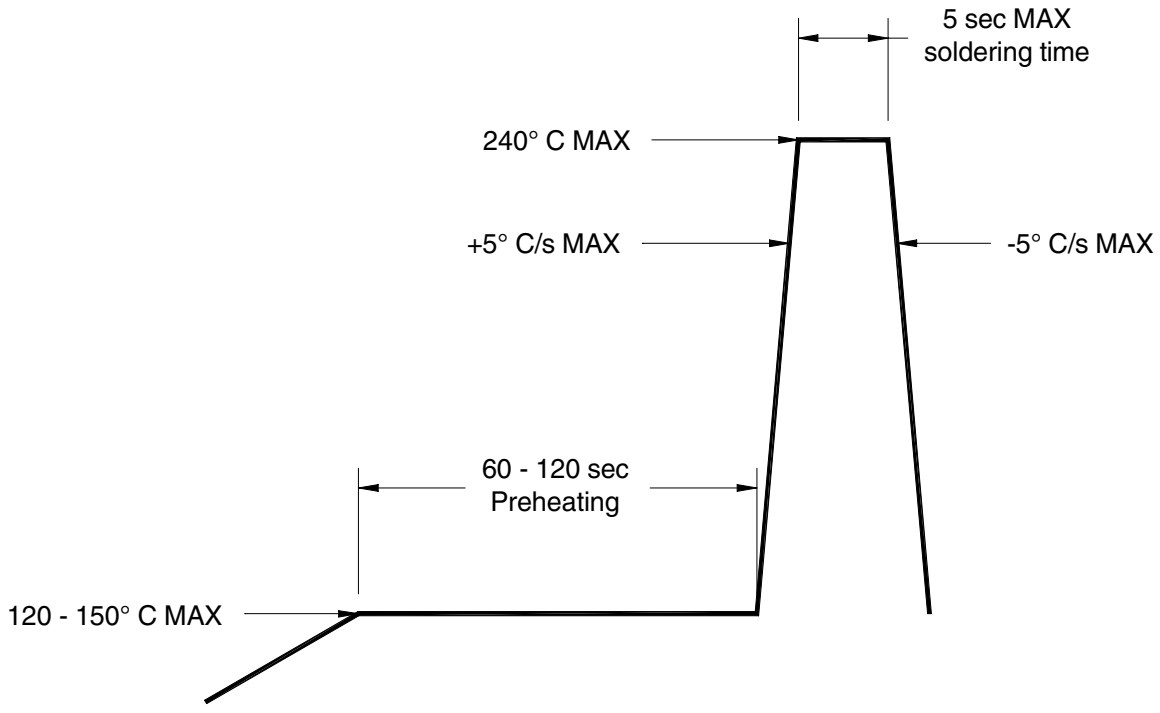


Fig.4 Radiation Diagram

RECOMMENDED IR REFLOW SOLDERING PROFILE



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