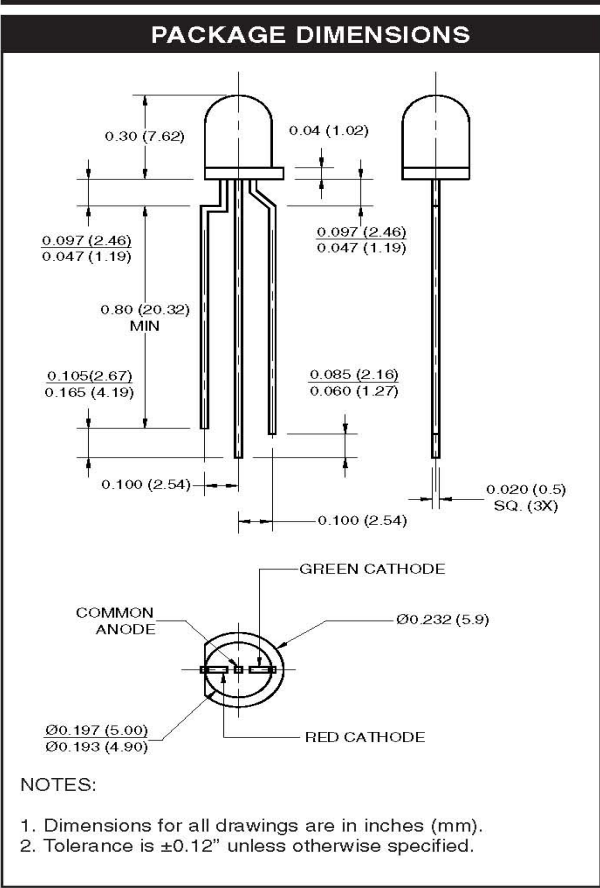
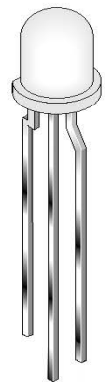


3 LEAD BICOLOR T-1 3/4 (5 mm) SOLID STATE LAMPS



GREEN / AlGaAs RED **MV5439A**



FEATURES

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

DESCRIPTION

The MV5439A is a three-lead bicolor T-1 3/4 (5mm) lamp with a central common anode lead. Each lamp comes with a white diffused lens and has a 100° viewing angle.

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise specified)			
Parameter	AlGaAs Red	Green	Units
Continuous Forward Current - I_F	30	30	mA
Peak Forward Current - I_F ($f = 1.0 \text{ KHz}$, Duty Factor = 1/10)	90	90	mA
Reverse Voltage - V_R ($I_R = 10 \mu\text{A}$)	5	5	V
Power Dissipation - P_D	120	120	mW
Operating Temperature - T_{OPR}	-55 to +100		$^\circ\text{C}$
Storage Temperature - T_{STG}	-55 to +100		$^\circ\text{C}$
Lead Soldering Time - T_{SOL}	260 for 5 sec		$^\circ\text{C}$



3 LEAD BICOLOR T-1 3/4 (5 mm) SOLID STATE LAMPS

GREEN / AlGaAs RED

MV5439A

ELECTRICAL / OPTICAL CHARACTERISTICS (T_A = 25° C)

Part Number MV5439A Grn/AlGaAs Red Luminous Intensity (mcd) Minimum 2/10 Typical 6/25 Condition I_F = 20 mA I_F = 20 mA
 Forward Voltage (V) Maximum 3.0/2.4 Typical 2.3/1.7 Chromatic Coordinates - Typical X = I_F = 20 mA I_F = 20 mA I_F = 20 mA
 0.27, Y = 0.28 Wavelength (nm) 565/660 Spectral Line Half Width (nm) 30/20 Viewing Angle I_F = 20 mA
 (°) 100

TYPICAL PERFORMANCE CURVES

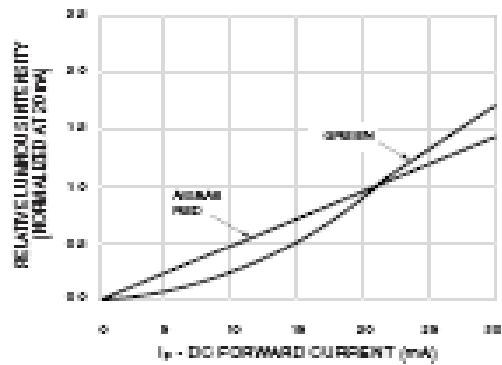
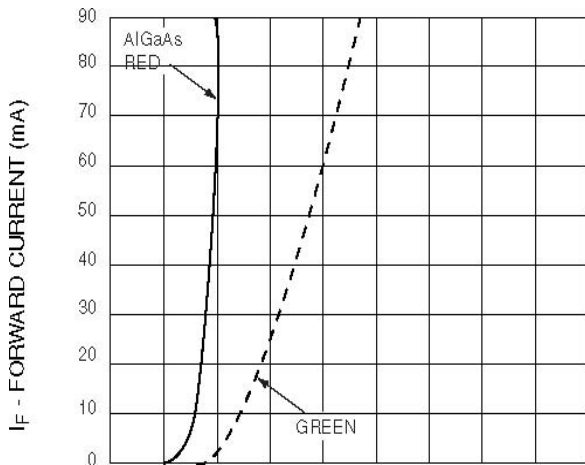


Fig. 2 Relative Luminous Intensity vs. DC Forward Current



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GREEN/ AlGaAs RED **MV5439A**

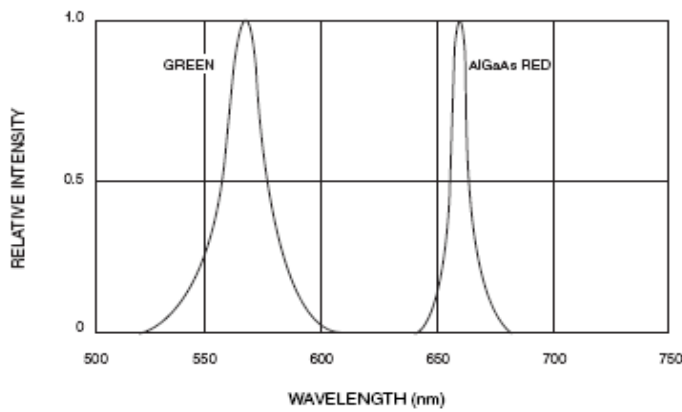


Fig. 3 Relative Intensity vs. Peak Wavelength

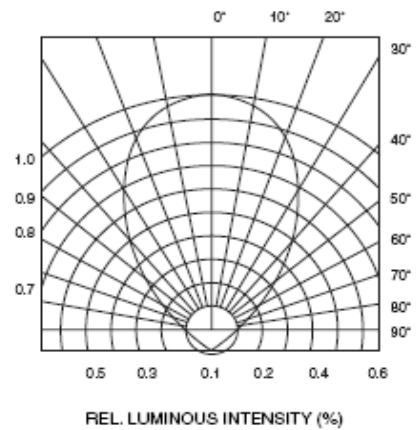


Fig. 4 Radiation Diagram

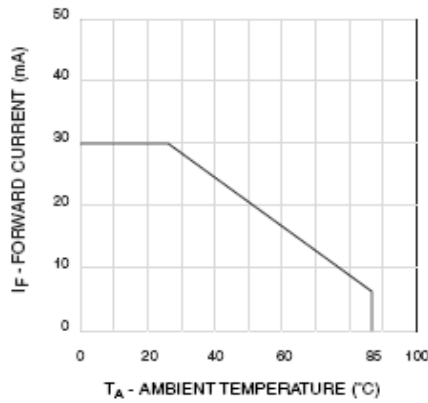


Fig. 5 Current Derating Curve



3 LEAD BICOLOR T-1 3/4 (5 mm) SOLID STATE LAMPS

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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.

