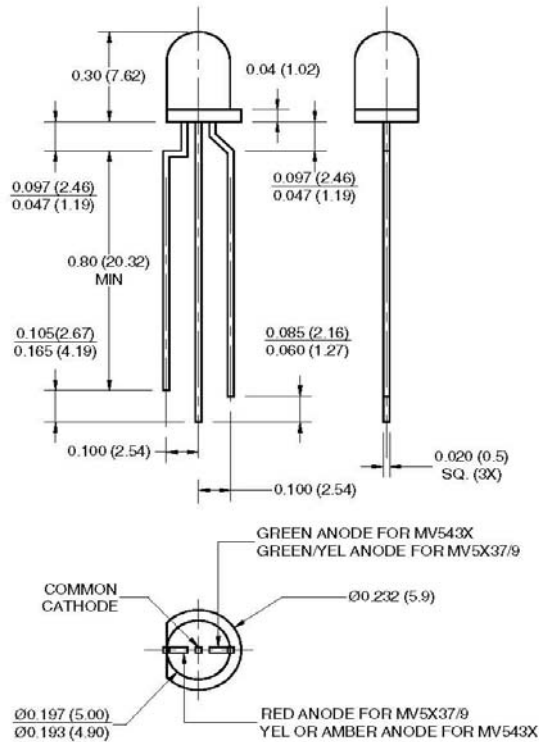


**EVERLIGHT****3 LEAD BICOLOR T-1 3/4 (5 mm)  
SOLID STATE LAMPS****PACKAGE DIMENSIONS****NOTES:**

1. Dimensions for all drawings are in inches (mm).
2. Tolerance is  $\pm 0.12''$  unless otherwise specified.

GREEN / YELLOW	MV5433
GREEN / ORANGE	MV5438
YELLOW / HER	MV5337
GREEN / HER	MV5437
GREEN / AlGaAs RED	MV5439

**FEATURES**

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

**DESCRIPTION**

The MV5X3X T-1 3/4 (5 mm) lamp is a three-lead bicolor light source with a central common cathode 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	HER	Green	Yellow	Orange	Units
Continuous Forward Current ( $I_F$ )	30	30	30	20	30	mA
Peak Forward Current ( $I_F$ ) ( $f = 1.0$ KHz, Duty Factor = 1/10)	90	90	90	60	90	mA
Power Dissipation ( $P_D$ )	120	120	120	85	100	mW
Reverse Voltage ( $V_R$ )	5	5	5	5	5	V
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 / YELLOW MV5433  
 GREEN / ORANGE MV5438  
 YELLOW / HER MV5337  
 GREEN / HER MV5437  
 GREEN / IGaAs RED MV5439

ELECTRICAL / OPTICAL CHARACTERISTICS (T <sub>A</sub> =25°C)						
Part Number	MV5437	MV5337	MV5433	MV5438	MV5439	Condition
	Grn/HER	Yel/HER	Grn/Yel	Grn/Orange	Grn/AlGaAs Red	
Luminous Intensity (mcd)						I <sub>F</sub> = 20 mA
Minimum	2/2	2/2	2/2	2/2	2/10	
Typical	6/6	6/6	6/6	6/6	6/25	
Forward Voltage (V)						I <sub>F</sub> = 20 mA
Maximum	3.0/3.0	3.0/3.0	3.0/3.0	3.0/3.0	3.0/2.4	
Typical	2.1/2.1	2.1/2.1	2.3/2.3	2.3/2.3	2.3/1.7	
Peak Wavelength (nm)	565/635	585/635	565/585	565/610	565/660	I <sub>F</sub> = 20 mA
Spectral Line Half Width (nm)	30/45	35/45	30/35	30/40	30/20	I <sub>F</sub> = 20 mA
Viewing Angle (°)	100°	100°	100°	100°	100°	I <sub>F</sub> = 20 mA

### TYPICAL PERFORMANCE CURVES

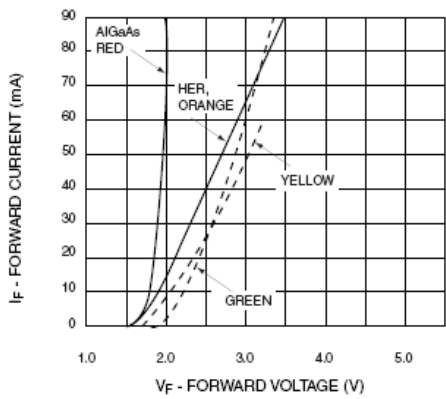


Fig. 1 Forward Current vs. Forward Voltage

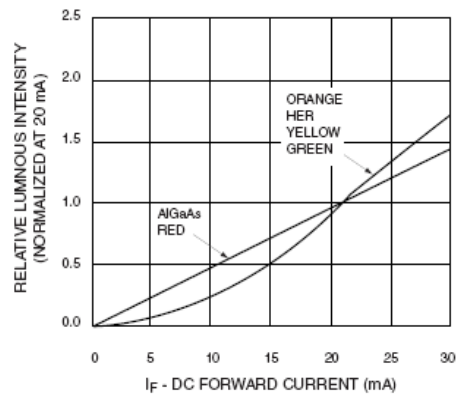


Fig. 2 Relative Luminous Intensity vs. DC Forward Current



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

- GREEN / YELLOW MV5433
- GREEN / ORANGE MV5438
- YELLOW / HER MV5337
- GREEN / HER MV5437
- GREEN / IGaAs RED MV5439

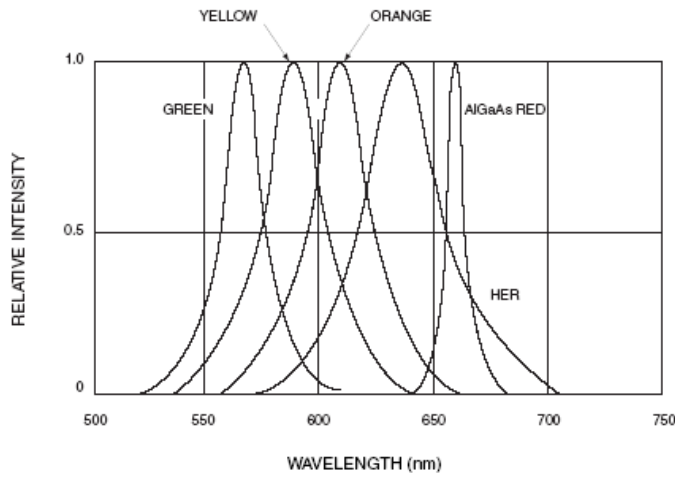


Fig. 3 Relative Intensity vs. Peak Wavelength

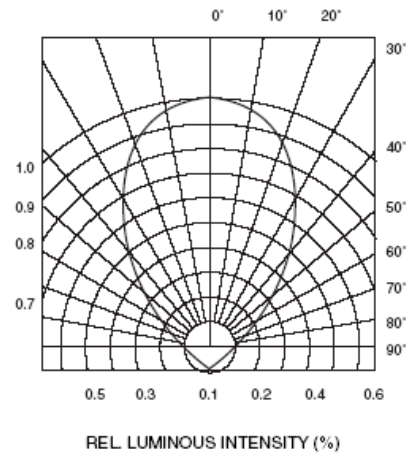


Fig. 4 Radiation Diagram

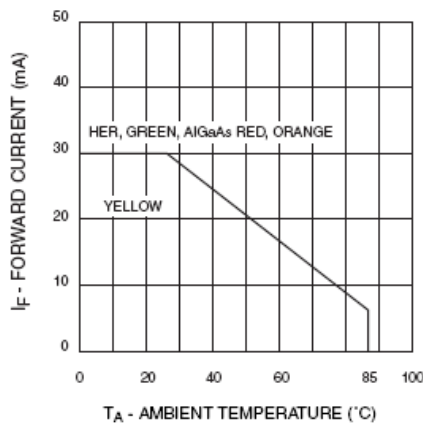


Fig. 5 Current Derating Curve



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

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