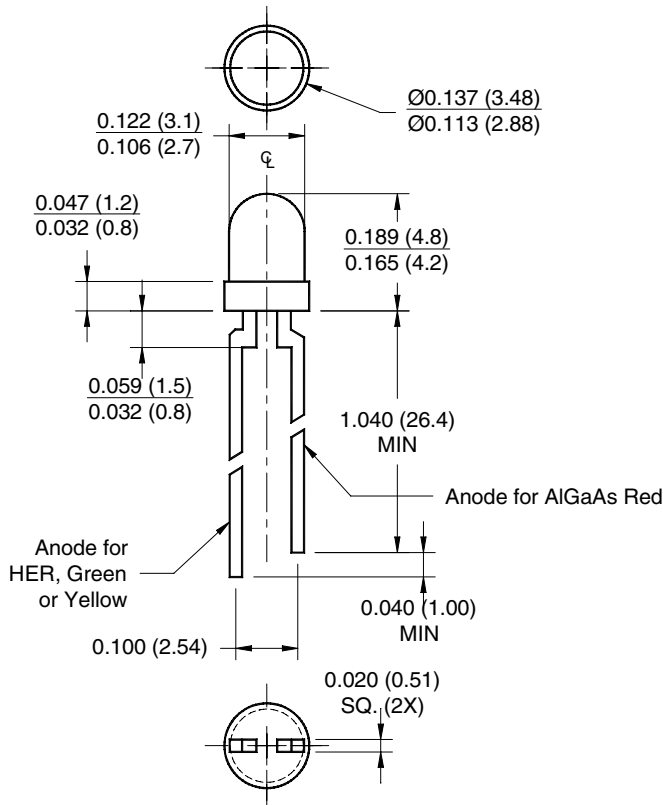


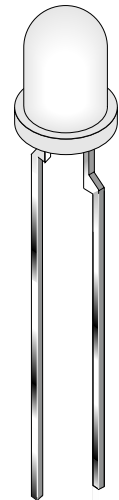
## PACKAGE DIMENSIONS



### NOTES:

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

HER / AlGaAs RED	MV6661A
GREEN / AlGaAs RED	MV6461A
YELLOW / AlGaAs RED	MV6361A



## FEATURES

- Excellent luminous uniformity
- Wide viewing angle
- Solid state reliability

## DESCRIPTION

The MV6X61A series is a bicolor, bipolar LED lamp with a wide viewing angle of 100°. In particular, MV6461A offers 4 states - green, red, orange (when AC driven) and off.

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

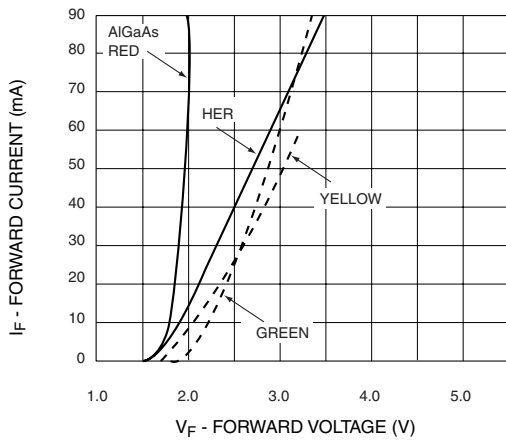
Parameter	AlGaAs Red	HER	Green	Yellow	Units
Continuous Forward Current - $I_F$	30	30	30	25	mA
Peak Forward Current - $I_F$ ( $f = 1.0 \text{ KHz}$ , Duty Factor = 1/10)	90	90	90	60	mA
Reverse Voltage - $V_R$ ( $I_R = 10 \mu\text{A}$ )	5	5	5	5	V
Power Dissipation - $P_D$	135	135	135	95	mW
Operating Temperature - $T_{OPR}$	-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				$^\circ\text{C}$

HER / AlGaAs RED	MV6661A
GREEN / AlGaAs RED	MV6461A
YELLOW / AlGaAs RED	MV6361A

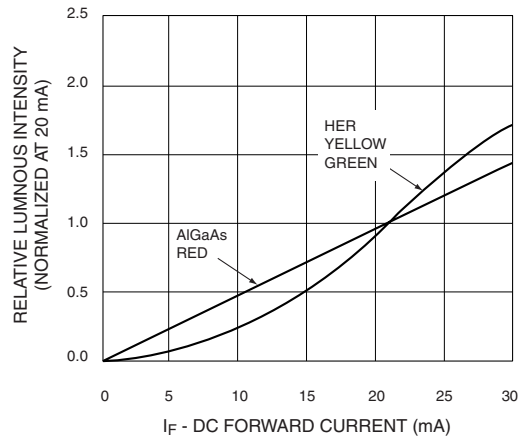
**ELECTRICAL / OPTICAL CHARACTERISTICS** (T<sub>A</sub> = 25°C)

Part Number	MV6661A	MV6461A	MV6361A	Condition
	HER / AlGaAs Red	Green / AlGaAs Red	Yellow / AlGaAs Red	
Luminous Intensity (mcd)				I <sub>F</sub> = 20 mA
Minimum	2.5/2.5	2.5/2.5	2.5/2.5	
Typical	10/10	10/10	10/10	
Forward Voltage (V)				I <sub>F</sub> = 20 mA
Maximum	3.0/2.4	3.0/2.4	3.0/2.4	
Typical	2.1/1.7	2.1/1.7	2.1/1.7	
Peak Wavelength (nm)	635/660	565/660	585/660	I <sub>F</sub> = 20 mA
Spectral Line Half Width (nm)	45/20	30/20	35/20	I <sub>F</sub> = 20 mA
Viewing Angle (°)	100°	100°	100°	I <sub>F</sub> = 20 mA

**TYPICAL PERFORMANCE CURVES**

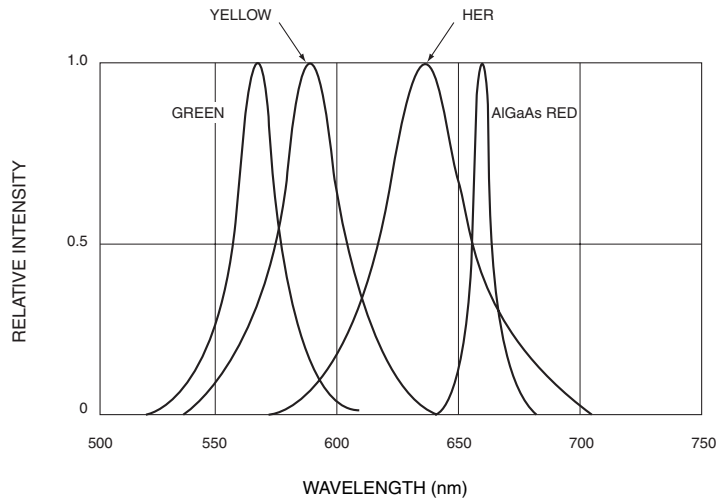


**Fig. 1 Forward Current vs. Forward Voltage**

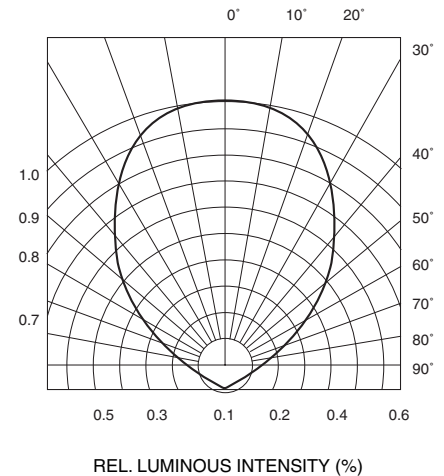


**Fig. 2 Relative Luminous Intensity vs. DC Forward Current**

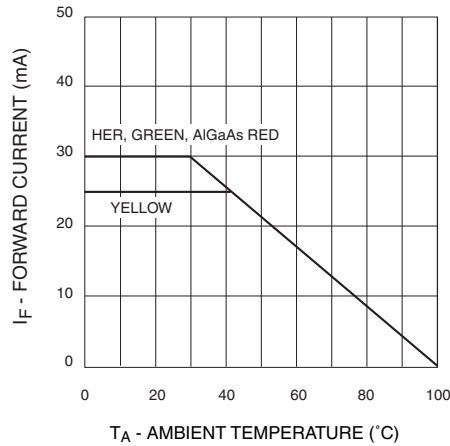
HER / AlGaAs RED	MV6661A
GREEN / AlGaAs RED	MV6461A
YELLOW / AlGaAs RED	MV6361A



**Fig. 3 Relative Intensity vs. Peak Wavelength**



**Fig. 4 Radiation Diagram**



**Fig. 5 Current Derating Curve**

<b>HER / AlGaAs RED</b>	<b>MV6661A</b>
<b>GREEN / AlGaAs RED</b>	<b>MV6461A</b>
<b>YELLOW / AlGaAs RED</b>	<b>MV6361A</b>

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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.

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