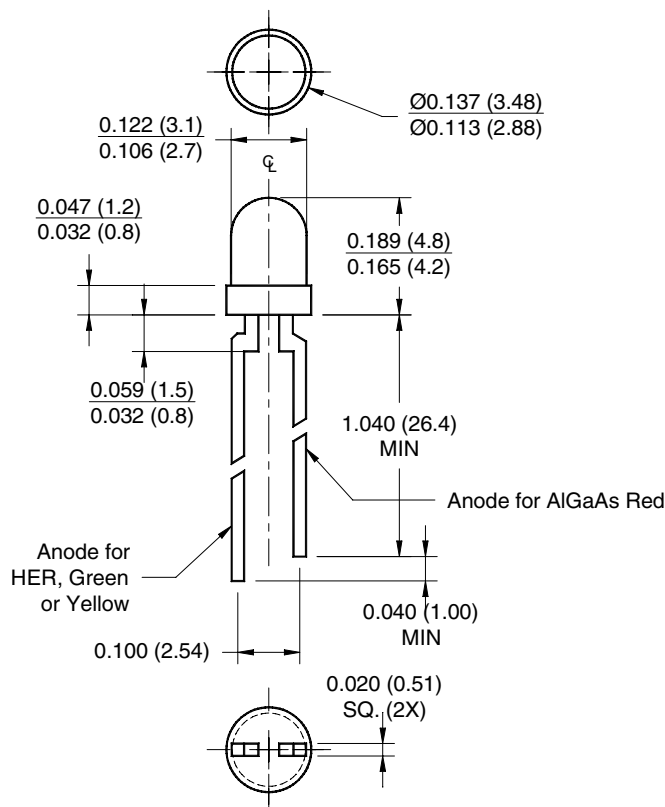


BICOLOR T-100 (3 mm) SOLID STATE LED LAMPS

PACKAGE DIMENSIONS



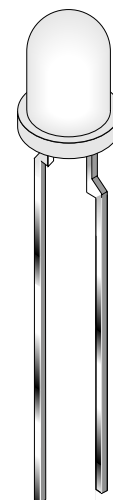
NOTES:

1. Dimensions for all drawings are in inches (mm).
2. Tolerance is ± 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 ($f = 1.0$ KHz, Duty Factor = 1/10)	90	90	90	60	mA
Reverse Voltage - V_R ($I_R = 10$ μA)	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_A = 25°C)

Part Number	MV6661A HER / AlGaAs Red	MV6461A Green / AlGaAs Red	MV6361A Yellow / AlGaAs Red	Condition
Luminous Intensity (mcd)				I _F = 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 _F = 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 _F = 20 mA
Spectral Line Half Width (nm)	45/20	30/20	35/20	I _F = 20 mA
Viewing Angle (°)	100°	100°	100°	I _F = 20 mA

TYPICAL PERFORMANCE CURVES

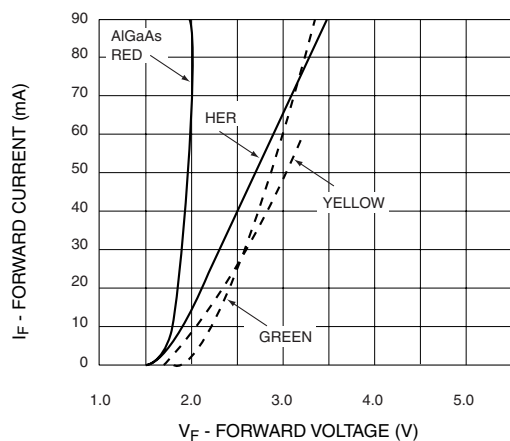


Fig. 1 Forward Current vs. Forward Voltage

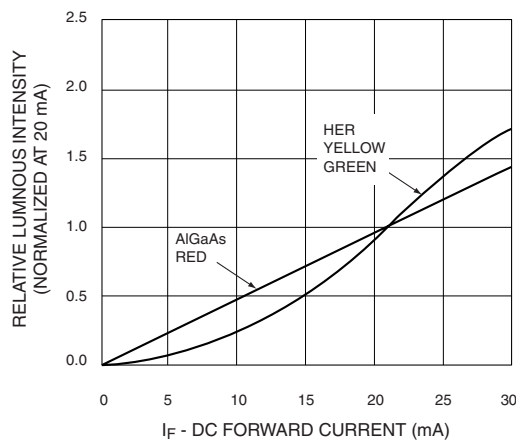
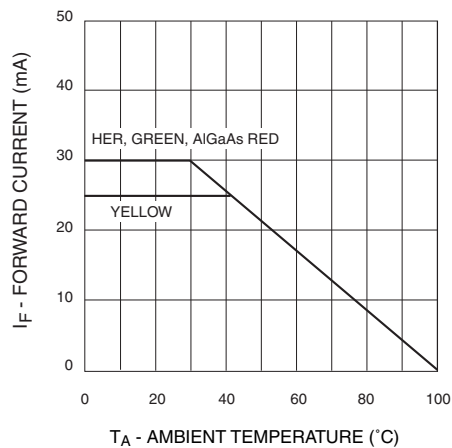
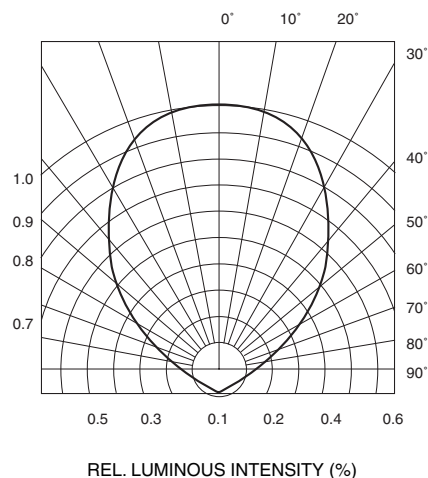
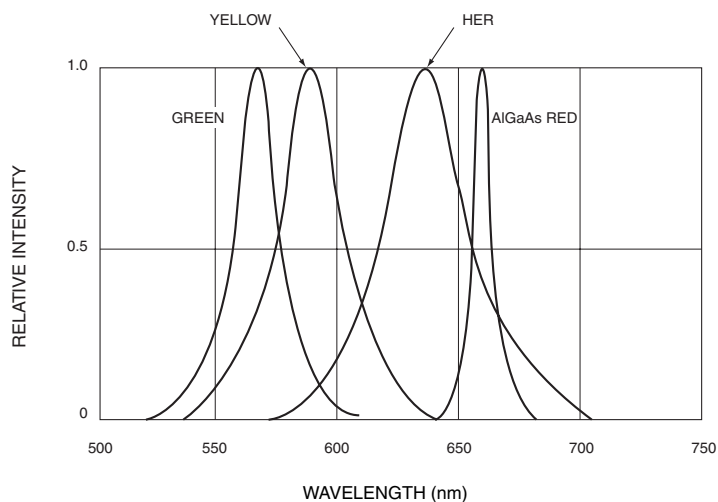


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

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



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

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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.