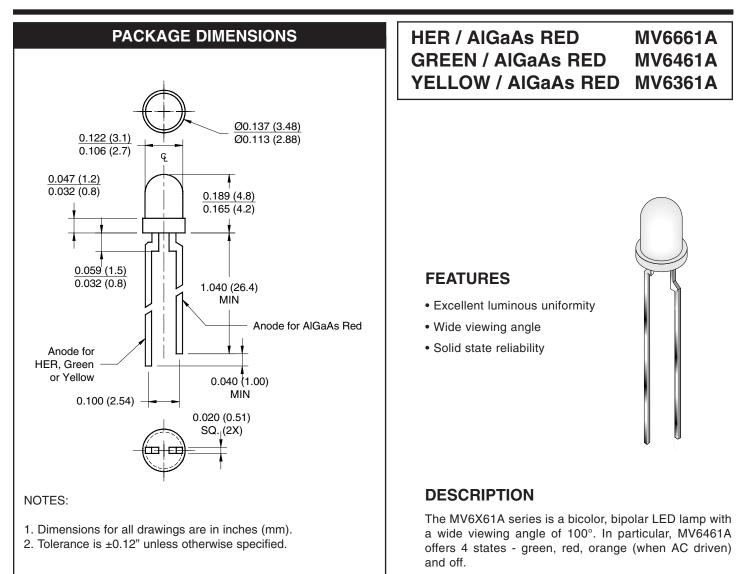


SEMICONDUCTOR

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



ABSOLUTE MAXIMUM RATINGS (T _A = 25°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	90	90	90	60	mA		
(f = 1.0 KHz, Duty Factor = 1/10)							
Reverse Voltage - $V_R (I_R = 10 \mu A)$	5	5	5	5	V		
Power Dissipation - P _D	135	135	135	95	mW		
Operating Temperature - T _{OPR}		°C					
Storage Temperature - T _{STG}		°C					
Lead Soldering Time - T _{SOL}		°C					



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

HER / AIGaAs RED GREEN / AIGaAs RED YELLOW / AIGaAs RED

MV6661A MV6461A MV6361A

ELECTRICAL / OPTICAL CHARACTERISTICS (TA =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

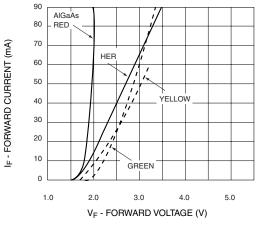


Fig. 1 Forward Current vs. Forward Voltage

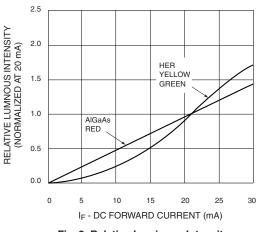


Fig. 2 Relative Luminous Intensity vs. DC Forward Current



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

MV6661A
MV6461A
MV6361A

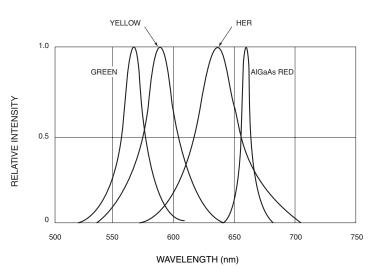
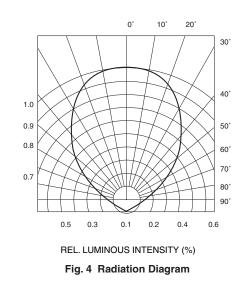


Fig. 3 Relative Intensity vs. Peak Wavelength



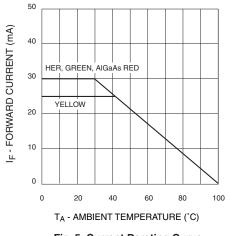


Fig. 5 Current Derating Curve



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

HER / AIGaAs REDMV6661AGREEN / AIGaAs REDMV6461AYELLOW / AIGaAs REDMV6361A

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE PRESIDENT OF FAIRCHILD SEMICONDUCTOR CORPORATION. As used herein:

- Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body,or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in labeling, can be reasonably expected to result in a significant injury of the user.
- 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.