

Parameter	AlGaAs Red	Green	Units
Continuous Forward Current - I _F	30	30	mA
Peak Forward Current - I _F	90	90	mA
(f = 1.0 KHz, Duty Factor = 1/10)			
Reverse Voltage - V _R (I _R = 10 µA)	5	5	V
Power Dissipation - P _D	120	120	mW
Operating Temperature - T _{OPR}	-55 to +100		°C
Storage Temperature - T _{STG}	-55 to +100		٥C
Lead Soldering Time - T _{SOL}	260 for 5 sec		°C

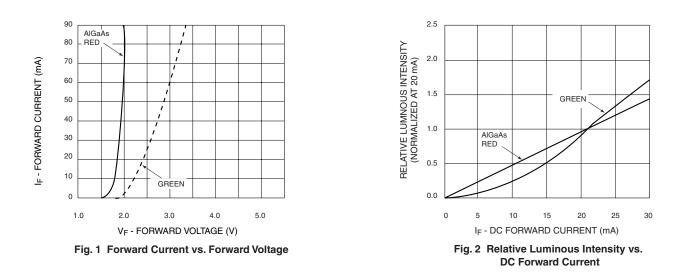


GREEN / AIGaAs RED

MV5439A

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

TYPICAL PERFORMANCE CURVES





GREEN / AIGaAs RED MV5439A

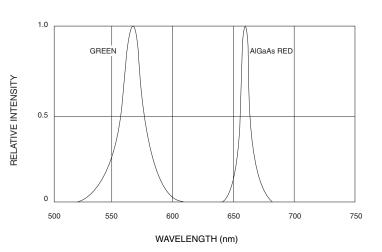


Fig. 3 Relative Intensity vs. Peak Wavelength

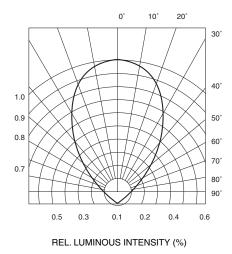
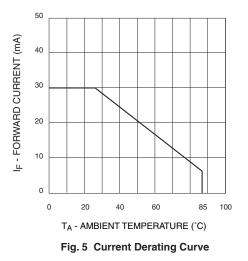


Fig. 4 Radiation Diagram





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 the 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.

www.fairchildsemi.com

© 2000 Fairchild Semiconductor Corporation