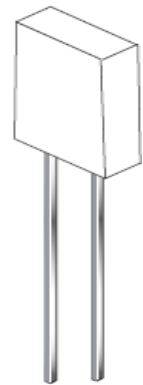
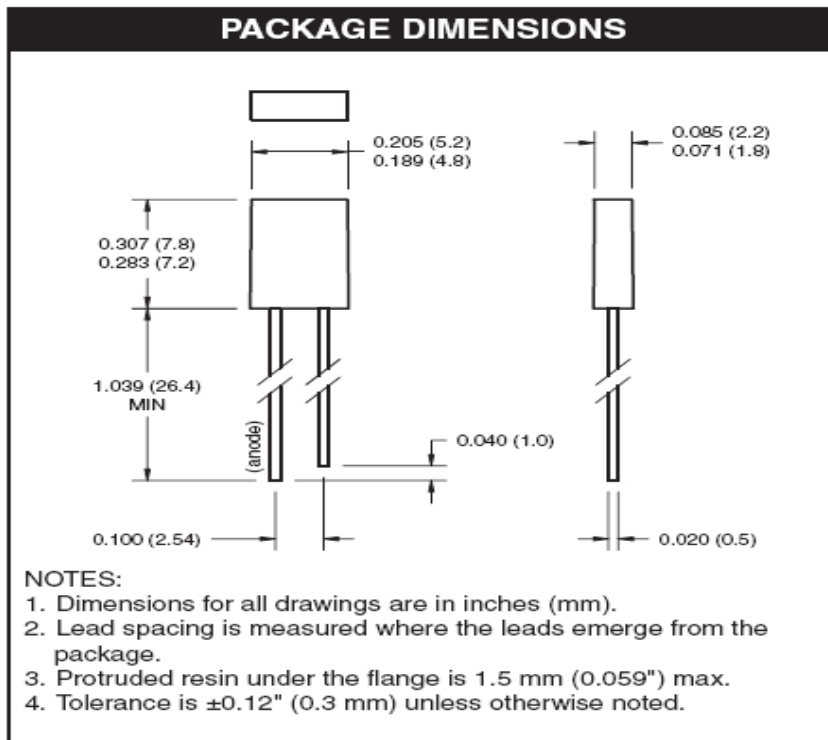




SOLID STATE LED LAMP

RECTANGULAR 2 X 5 mm LED LAMPS

MV52123	AlGaAs	Red	MV53123	Yellow	MV54123	Green
MV57123	HER		MV5B123	Blue		



DESCRIPTION

This rectangular LED lamp provides a lighted surface area of 2 X 5 mm. The high efficiency red and yellow solid state lamps contain a GaAsP on GaP light emitting diode. The green lamps utilize a GaP light emitting diode. The blue lamps have a GaN/SiC chip.

FEATURES

- General purpose indicator
- Selected minimum intensities
- Color diffused lens
- Standard 100 mil. lead spacing
- Long life solid-state reliability



SOLID STATE LED LAMP

RECTANGULAR 2 X 5 mm LED LAMPS

MV52123	AlGaAs	Red	MV53123	Yellow	MV54123	Green
MV57123	HER		MV5B123	Blue		

ABSOLUTE MAXIMUM RATINGS (T _A = 25° C unless otherwise specified)						
Parameter	BLUE MV5B123	HER MV57123	GREEN MV54123	YELLOW MV53123	AlGaAs RED MV52123	Units
Continuous Forward Current - I _F	30	30	30	25	30	mA
Peak Forward Current - I _F (f = 1.0 KHz, Duty Factor = 1/10)	100	150	150	150	150	mA
Reverse Voltage - V _R (I _R = 10 μA)	10	5	5	5	5	V
Power Dissipation - P _D	115	100	100	100	100	mW
Operating Temperature - T _{OPR}	-40 to +100					° C
Storage Temperature - T _{STG}	-40 to +100					° C
Lead Soldering Time - T _{SOL}	260 for 5 sec					° C

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A = 25° C)						
Part Number	MV5B123 BLUE	MV57123 HER	MV54123 GREEN	MV53123 YELLOW	MV52123 AlGaAs RED	Condition
Luminous Intensity (mcd)						
Minimum	2.0	1.0	1.0	1.0	1.5	I _F = 20mA
Typical	6.0	4.0	4.0	4.0	5.0	
Forward Voltage (V) Maximum	4.5	3.0	3.0	3.0	2.4	I _F = 20mA
Typical	3.8	2.0	2.2	2.1	1.7	
Peak Wavelength (nm)	430	635	565	585	660	I _F = 20mA
Spectral Line Half Width (nm)	65	35	30	45	40	I _F = 20mA
Viewing Angle (°)	100	100	100	100	100	I _F = 20mA



SOLID STATE LED LAMP

RECTANGULAR 2 X 5 mm LED LAMPS

MV52123 AlGaAs Red

MV53123 Yellow

MV54123 Green

MV57123 HER

MV5B123 Blue

TYPICAL PERFORMANCE CURVES

Fig. 1 Forward Current vs. Forward Voltage

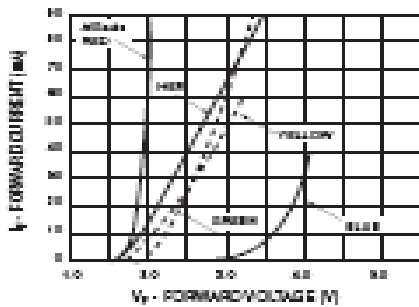


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

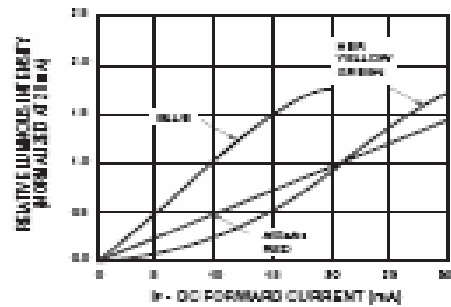


Fig. 3a Relative Intensity vs. Peak Wavelength

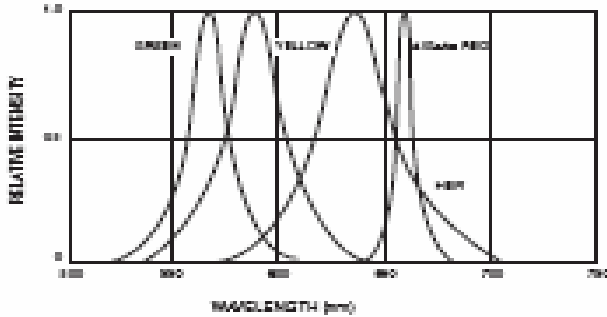


Fig. 4 Current Derating Curve

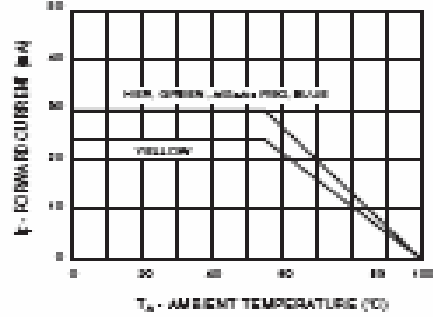
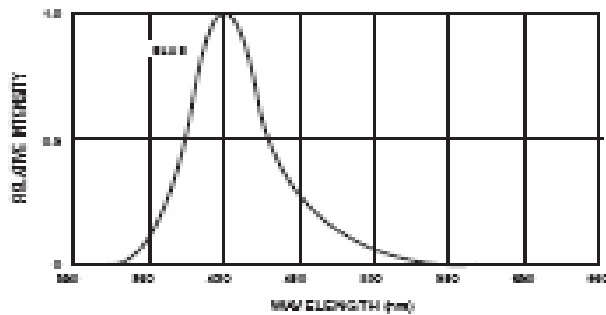


Fig. 3b Relative Intensity vs. Peak Wavelength





SOLID STATE LED LAMP RECTANGULAR 2 X 5 mm LED LAMPS

MV52123	AlGaAs	Red	MV53123	Yellow	MV54123	Green
MV57123	HER		MV5B123	Blue		

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:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, (b) support or sustain life, and (c) whose failure to perform support when properly used in accordance with instructions 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 or device or system whose failure to perform can be reasonably expected to cause the failure of the life for use device or system, or to affect its safety or effectiveness.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Standard LEDs - Through Hole category:](#)

Click to view products by [Everlight manufacturer:](#)

Other Similar products are found below :

[LTL-10254W](#) [LTL-1214A](#) [LTL-2231AT](#) [LTL-3251A](#) [LTL-4262N](#) [LTL-433P](#) [LTL-5234](#) [LTL87HTBK](#) [LTX-87HD4B](#) [HLMP-EL30-PS0DD](#) [1L0532V23G0TD001](#) [NSPW500CS](#) [LD CQDP-1U3U-W5-1-K](#) [LP379PPG1C0G0300001](#) [SLR-342MC3F](#) [SLX-LX3044GD](#) [SLX-LX3044ID](#) [SLX-LX3044YD](#) [1.90690.3330000](#) [SSS-LX4673ID-410B](#) [1L0532Y24I0TD001](#) [264-7SYGD/S530-E2](#) [HLMP-1301-G00FG](#) [HLMP1385](#) [LTL-10224W](#) [LTL-1224A](#) [LTL-1234A](#) [LTL-2251AT](#) [LTL-403HR](#) [LTL-4222](#) [LU7-E-B](#) [4380H1](#) [HLMP-3962-F0002](#) [HLMP-GG15-R0000](#) [323-2SURD/S530-A3](#) [L53SRC/E-Z](#) [L-7679C1ZGC](#) [4302T1-5V](#) [4306D23](#) [4363D1/5](#) [WP1503SRC/J4](#) [WP153YDT](#) [WP1543SGC](#) [WP1543SURC](#) [WP53MGD](#) [WP7113HD](#) [WP7113MBD](#) [WP7113MGC](#) [WP7143SEC/H](#) [Z-221A](#)