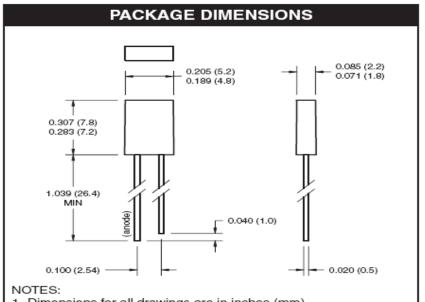


SOLID STATE LED LAMP

RECTANGULAR 2 X 5 mm LED LAMPS

MV52123	A1GaAs	Red	MV53123	Yellow	MV54123	Green
MV57 123	HER		MV5B123	B1ue		





- 1. Dimensions for all drawings are in inches (mm).
- 2. Lead spacing is measured where the leads emerge from the package.
 3. Protruded resin under the flange is 1.5 mm (0.059") max.
- 4. Tolerance is ±0.12" (0.3 mm) unless otherwise noted.

DESCRIPTION

This rectangular LED lamp provides a lighted surface area of 2 X 5 mm. The high ef \square ciency 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
 A1GaAs
 Red
 MV53123
 Yellow
 MV54123
 Green

 MV57123
 HER
 MV5B123
 Blue

ABSOLUTE MAXIMUM RATINGS	S (TA = 25° C	unless other	wise specifie	d)		
Parameter	BLUE MV5B123	HER MV57123	GREEN MV54123	YELLOW MV53123	A1GaAs RED MV52123	Units
Continuous Forward Current - IF	30	30	30	25	30	mA
Peak Forward Current - IF $(f = 1.0 \text{ KHz}, \text{Duty Factor} = 1/10)$	100	150	150	150	150	mA
Reverse Voltage - VR (IR = 10 μ A)	10	5	5	5	5	V
Power Dissipation - PD	115	100	100	100	100	mW
Operating Temperature — Topr	-40 to +100					° C
Storage Temperature - TSTG	-40 to +100					° C
Lead Soldering Time - TsoL	Soldering Time - TSOL 260 for 5 sec					° C

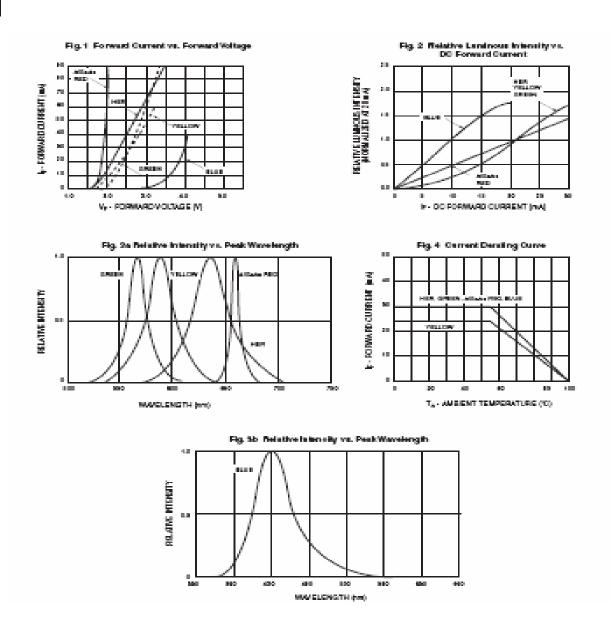
ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25° C)							
Part Number	MV5B123 BLUE	MV57123 HER	MV54123 GREEN	MV5B123 YELLOW	MV5B123 A1GaAs RED	Condition	
Luminous Intensity (mcd) Minimum	2.0	1.0	1.0	1.0	1 5		
Typical	2.0 6.0	1.0	1.0	1.0	1.5 5.0	IF = 20mA	
Forward Voltage (V) Maximum	4.5	3.0	3.0	3.0	2.4		
Typica1	3.8	2.0	2.2	2.1	1.7	$I_F = 20mA$	
Peak Wavelength (nm)	430	635	565	585	660	IF = 20mA	
Spectral Line Half Width (nm)	65	35	30	45	40	IF = 20mA	
Viewing Angle (°)	100	100	100	100	100	IF = 20mA	



SOLID STATE LED LAMP RECTANGULAR 2 X 5 mm LED LAMPS

MV52123 A1GaAs Red MV57123 HER MV53123 Yellow MV5B123 Blue MV54123 Green

TYPICAL PERFORMANCE CURVES





SOLID STATE LED LAMP

RECTANGULAR 2 X 5 mm LED LAMPS

MV52123	A1GaAs	Red	MV53123	Yellow	MV54123	Green
MV57123	HER		MV5B123	B1ue		

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- 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.