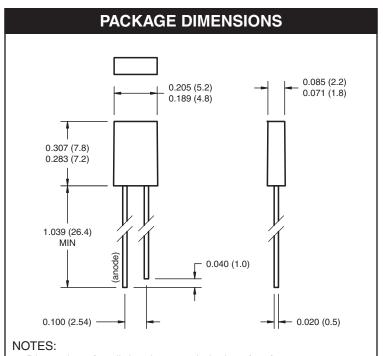


MV52123 AlGaAs Red **MV57123** HER

MV53123 Yellow **MV5B123** Blue

MV54123 Green





- 1. Dimensions for all drawings are in inches (mm).
- 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 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



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								
Storage Temperature - T _{STG}	-40 to +100								
Lead Soldering Time - T _{SOL}	260 for 5 sec								

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)										
Part Number	MV5B123 BLUE	MV57123 HER	MV54123 GREEN	MV5B123 YELLOW	MV5B123 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				



MV52123 AlGaAs Red MV57123 HER MV53123 Yellow MV5B123 Blue

MV54123 Green

TYPICAL PERFORMANCE CURVES

Fig. 1 Forward Current vs. Forward Voltage

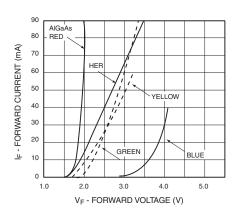
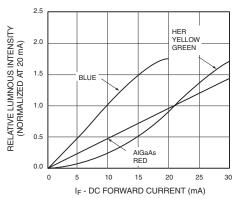


Fig. 2 Relative Luminous Intensity vs.
DC Forward Current



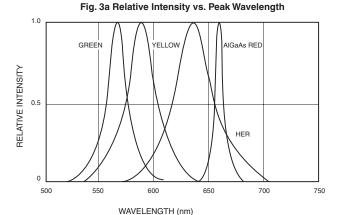


Fig. 4 Current Derating Curve

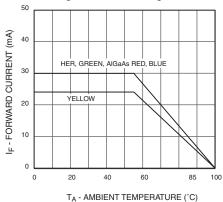
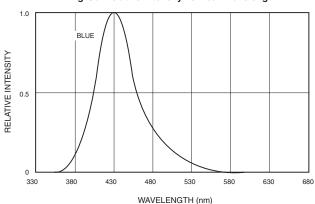


Fig. 3b Relative Intensity vs. Peak Wavelength





MV52123 AlGaAs Red **MV57123** HER

MV53123 Yellow **MV5B123** Blue

MV54123 Green

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- 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.