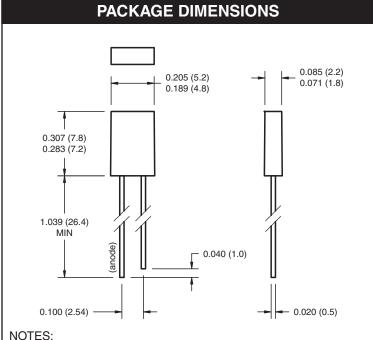


MV52123 AlGaAs Red **MV57123** HER

MV53123 Yellow MV5B123 Blue

MV54123 Green





- 1. Dimensions for all drawings are in inches (mm).
- 2. Lead spacing is measured where the leads emerge from the
- 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 ($I_R = 10 \mu A$)	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 AIGaAs 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

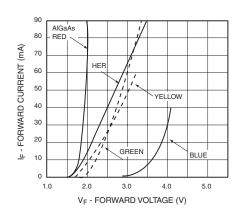


Fig. 2 Relative Luminous Intensity vs.
DC Forward Current

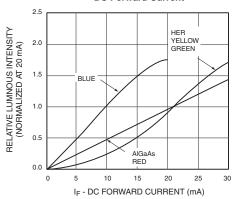


Fig. 3a Relative Intensity vs. Peak Wavelength

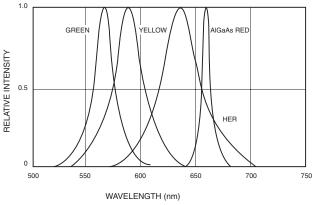


Fig. 4 Current Derating Curve

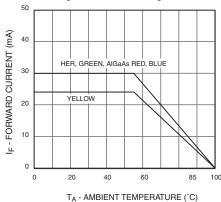
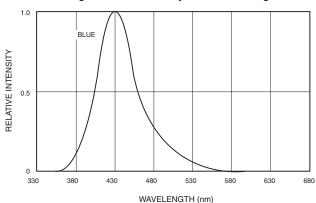


Fig. 3b Relative Intensity vs. Peak Wavelength





MV52123 AlGaAs Red MV57123 HER **MV53123** Yellow **MV5B123** Blue

MV54123 Green

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