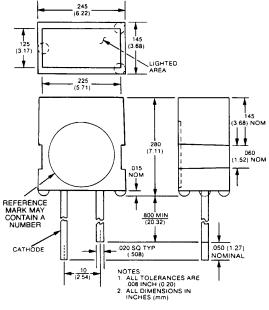
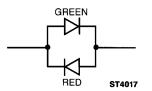


YELLOW **MV53124A** HIGH EFFICIENCY GREEN **MV54124A** HIGH EFFICIENCY RED **MV57124A** HIGH EFFICIENCY GREEN/AIGaAs RED **MV49124A**

PACKAGE DIMENSIONS



C1245B



FOR MV49124A

23

DESCRIPTION

The MV5X124A Series of rectangular high performance LED lamps with reflector cap has been engineered for much improved light uniformity which is especially important in direct view and legend backlighting. Includes a Green/Red version—MV49124A. The Green chip is the same as is used in MV54124A, while the Red chip is AlGaAs at 660 nm to achieve a bright Dark Red color in the non-tinted diffused epoxy.

FEATURES

- Uniform illumination
- Increased typical brightness
- Tighter mechanical tolerances for base of design
- Stackable in X or Y direction without crosstalk
- .220" × .125" lighted area for direct view or legend backlighting
- Use Black MP65 two piece grommet for panel mounting
- Superior quality

APPLICATIONS

- Legend backlighting
- Panel indicator
- High quality bargraphs

PHYSICAL CHARACTERISTICS					
ТҮРЕ	SOURCE COLOR	LENS EFFECT			
MV53124A	Yellow	Yellow Diffused			
MV53124A	High Eff. Green	Green Diffused			
MV57124A	High Eff. Red	Red Diffused			
MV49124A	High Eff. Green/AlGaAs Red	White Diffused			



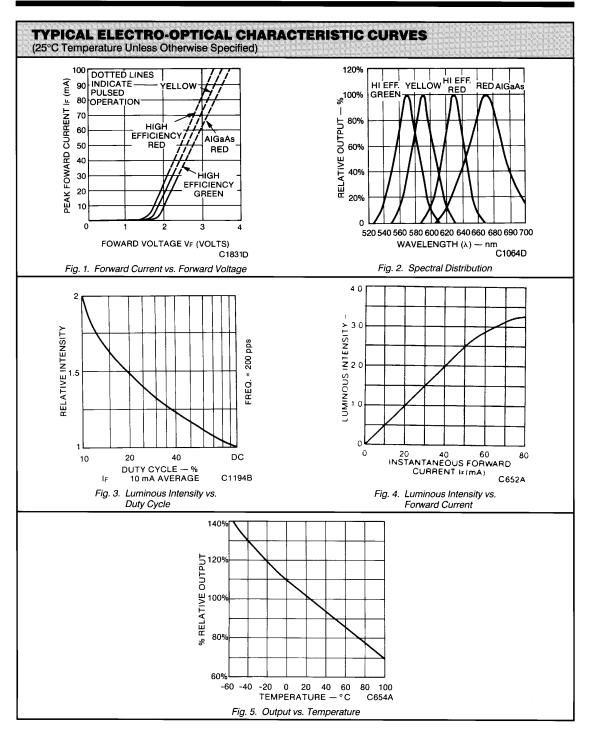
			MV	MV	MV	MV		ss Otherwise Spec	Jinooj
PARAMETER		SYMBOL	53124A	54124A	57124A	49124A	UNITS	COND.	NOTES
Luminous Intensity	min. typ.	I _v	1.0 6.0	1.0 6.0	1.0 6.0	1.0 6.0	mcd mcd	I _⊧ =20 mA I _⊧ =20 mA	
Forward voltage	typ. max.	V _F	2.0 3.0	2.2 3.0	2.0 3.0	2.2 3.0	V V	l _⊧ =20 mA l _⊧ =20 mA	
Peak wavelength		λρ	585	562	635	562/660	nm	I _F =20 mA	
Spectral line half width			45	30	45	30/45	nm	I _⊧ =20 mA	
Reverse voltage	min.	V _{BR}	5	5	5		V	I _R =100 μA	
Reverse current	max.	I _B	100	100	100		μA	V _R =5.0 V	
Capacitance		С	45	20	45	20/30	pF	V=0, f=1 MHz	
Viewing angle (total)		201⁄2	100	100	100	100	degrees		

PARAMETER	ALL DEVICES	UNITS	NOTES
Power dissipation	120	mW	1
Continuous forward current	30	mA	•
Peak forward current (1 μ s, 0.3% DF)	90	mA	
Lead soldering time at 260° C	5	seconds	2
Operating and storage temperatures	-55°C to +100°C		-

NOTES

Derate linearity from 25°C at 1.6 mW/°C.
From a point minimum 1/16 inch (1.6 mm) from the bottom of the lamp.







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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.



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