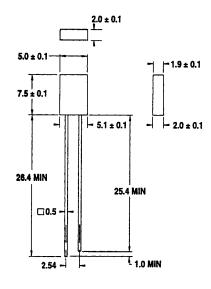


RECTANGULAR SOLID STATE LAMPS

YELLOW MV53123
HIGH EFFICIENCY GREEN MV54123
HIGH EFFICIENCY RED MV57123

PACKAGE DIMENSIONS



C1667A

DESCRIPTION

These rectangular LED lamps provide a lighted surface area 2×5 mm. The High Efficiency Red and Yellow solid state lamps contain a gallium arsenide phosphide on gallium phosphide light emitting diode. The High Efficiency Green Lamps utilize an improved gallium phosphide light emitting diode.

FEATURES

- 2 × 5 mm lighted area
- High brightness—typically 4 mcd at 20 mA
- Solid state reliability
- Compact, rugged, lightweight

APPLICATIONS

- Legend backlighting
- Illuminated pushbutton
- Panel indicator
- Bargraph meter

NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES (MM)
- 2. TOLERANCES ARE ±010" INCHES UNLESS SPECIFIED.
- 3. AN EPOXY MENISCUS MAY EXTEND ABOUT .40" (1MM) DOWN THE LEADS. THE BASE OF THE PACKAGE IS NOT FLAT.

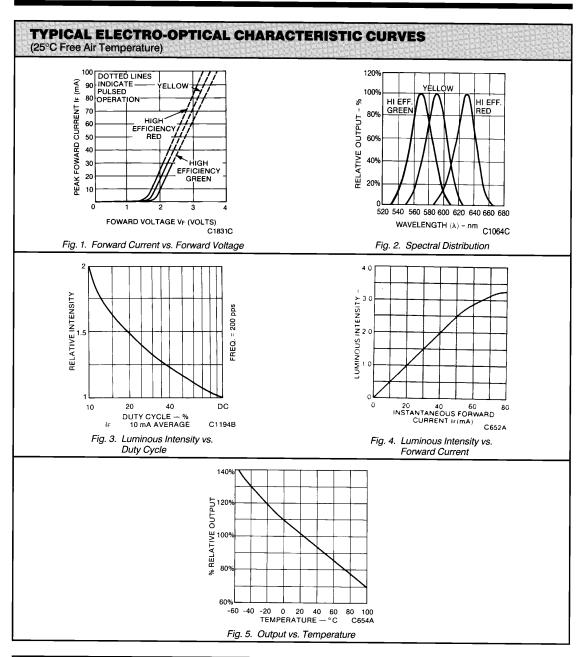


RECTANGULAR SOLID STATE LAMPS

ELECTRO-OPTICAL CHARACTERISTICS (T _x =25°C Unless Otherwise Specified)						
PARAMETER	TEST COND.	UNITS	MV53123	MV54123	MV57123	
Forward voltage (V _F)						
typ.	$I_F=20 \text{ mA}$	V	2.1	2.2	2.0	
max.	$I_F = 20 \text{ mA}$	V	3.0	3.0	3.0	
Luminous Intensity	-			***		
min.	$I_F=20 \text{ mA}$	mcd	1.0	1.0	1.0	
typ.	I_F =20 mA	mcd	4.0	4.0	4.0	
Peak wavelength		mcd	585	562	635	
half width	$I_F = 20 \text{ mA}$	nm	45	30	45	
Capacitance						
typ.	V=0, $f=1$ MHz	pF	45	20	45	
Reverse voltage (V _B)	-					
min.	I _B =100 μA	V	5.0	5.0	5.0	
Viewing angle (total)		degrees	100	100	100	

	MV53123	MV54123 MV57123	
Power dissipation	85 mW	120 mW	
Derate linearly from 50°C	1.6 mW/°C	1.6 mW/°C	
Storage and operating temperatures	-55°C to +100°C	-55°C to +100°C	
Peak forward current (1 μ sec pulse width 300 pps)	60 mA	90 mA	
Forward current	20 mA	30 mA	
Lead soldering time at 260°C (See Note 1)	5 sec.	5 sec.	
Reverse voltage	5.0 V	5.0 V	





NOTES

 The leads of the device immersed in molten solder, heated to a temperature of 260°C, to a point 1/16 inch (1.6 mm) from the body of the device per MIL-S-750, with dwell time of 5 seconds.



RECTANGULAR SOLID STATE LAMPS

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