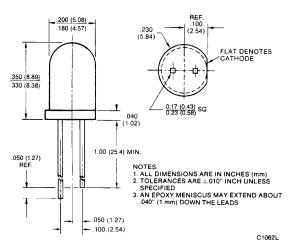




ORANGE MV5153/4A MV6153/4A YELLOW MV5353/4A MV6353/4A HIGH EFFICIENCY GREEN MV5453/4A MV64530/1 MV6454A HIGH EFFICIENCY RED MV5753/4A MV6753/4A

PACKAGE DIMENSIONS



DESCRIPTION

These solid state indicators offer a variety of diffused lens effects and color availability. The High Efficiency Red anc Yellow devices are made with gallium arsenide phosphide on gallium phosphide. The Green units are made with gallium phosphide on gallium phosphide. All devices are available with cathode long as MV5X5X, or with anode long as MV6X5X.

FEATURES

- High efficiency GaP light source with various lens effects
- Versatile mounting on PC board or panel
- Snap in grommet MP52 available as separate order item
- Long life—solid state reliability
- Low power requirements
- Compact, rugged, lightweight

PHYSICAL CHARACTERISTICS							
CATHODE LONG	ANODE LONG	SOURCE COLOR	LENS TYPE	LENS EFFECT	APPLICATION		
MV5153	MV6153	High Efficiency Red	Amber Diffused	Wide Beam	Direct View		
MV5154A	MV6154A	High Efficiency Red	Amber Diffused	Narrow Beam	High Bright Direct View		
MV5353	MV6353	Yellow	Yellow Diffused	Wide Beam	Direct View		
MV5354A	MV6354A	Yellow	Yellow Diffused	Narrow Beam	High Bright Direct View		
MV5453	MV64530/1	High Efficiency Green	Green Diffused	Wide Beam	Direct View		
MV5454A	MV6454A	High Efficiency Green	Green Diffused	Narrow Beam	High Bright Direct View		
MV5753	MV6753	High Efficiency Red	Red Diffused	Wide Beam	Direct View		
MV5754A	MV6754A	High Efficiency Red	Red Diffused	Narrow Beam	High Bright Direct View		



DIFFUSED T-13/4 SOLID STATE LAMPS

PARAMETER	TEST COND.	UNITS	6153 5153	6154A 5154A	6353 5353	6354A 5354A	64530 5453	64531	6454A 5454A	6753 5753	6754A 5754A
Forward voltage (V _F)											
typ.	$I_F=20 \text{ mA}$	V	2.0	2.0	2.1	2.1	2.2	2.2	2.2	2.0	2.0
max.	$I_F=20 \text{ mA}$	V	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Luminous Intensity											
min.	$I_F=20 \text{ mA}$	mcd	3.0	10.0	2.5	10.0	3.0	7.0	10.0	3.0	10.0
typ.	$I_F=20 \text{ mA}$	mcd	15	25	15	25	20	20	30	15	25
Peak wavelength	I _F =20 mA	nm	635	635	585	585	562	562	562	635	635
Spectral line half width	I _F =20 mA	nm	45	45	35	35	30	30	30	45	45
Capacitance	-89										
typ.	V=0, f=1 MHz	рF	45	45	45	45	20	20	20	45	45
Reverse voltage (V _R)											
min.	$I_{R} = 100 \ \mu A$	V	5	5	5	5	5	5	5	5	5
Reverse current (I _R)											
max.	$V_R=5.0 V$	μA	100	100	100	100	100	100	100	100	100
Viewing angle (total)	See Fig. 3	degrees	65	24	65	24	75	75	24	65	24

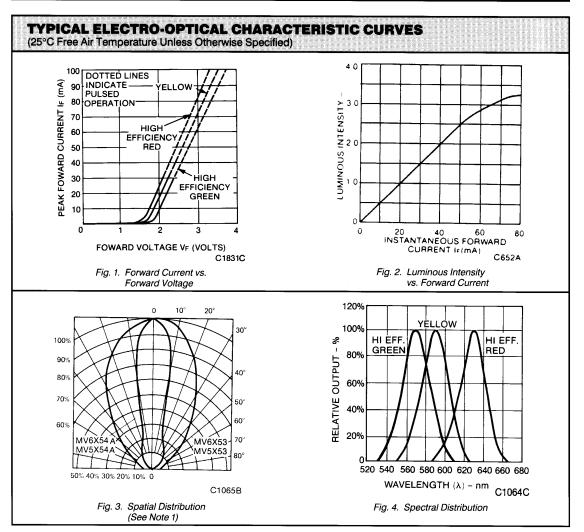
	YELLOW	H.E. RED, ORANGE	GREEN	
Power dissipation at 25°C ambient	85 mW	120 mW	120 mW	
Derate linearly from 25°C (MVX453/4A from 50°C)		1.6 mW/°C	1.6 mW/°C	
Storage and operating temperatures	-55°C to +100°C	-55°C to +100°C	-55°C to +100°C	
_ead soldering time at 260°C (See Note 2)	5 sec.	5 sec.	5 sec.	
Continuous forward current at 25°C	20 mA	35 mA	30 mA	
Peak forward current (1 μ sec pulse, 0.3% duty cycle)		1.0 A	90 mA	
Reverse voltage	5.0 V	5.0 V	5.0 V	

NOTES

- The axis of spatial distribution are typically within a 10° cone with reference to the central axis of the device.
 The leads of the device were immersed in molten solder, at 260°C, to a point 1/16 inch (1.6 mm) from the bodyof the device per MIL-S-750, with a dwell time of 5 seconds.









DIFFUSED T-1 3/4 SOLID STATE LAMPS

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