

PHYSICAL CHARACTERISTICS					
CATHODE LONG	ANODE LONG	SOURCE COLOR	LENS TYPE	LENS EFFECT	APPLICATION
MV5152	MV6152	High Efficiency Red	Amber Clear	Point Source	Backlighting
MV5352	MV6352	Yellow	Yellow Clear	Point Source	Backlighting
MV5452	MV64520	High Efficiency Green	Green Clear	Point Source	Backlighting
—	MV64521	High Efficiency Green	Green Clear	Point Source	Backlighting
MV5752	MV6752	High Efficiency Red	Red Clear	Point Source	Backlighting

ELECTRO-OPTICAL CHARACTERISTICS (25°C Free Air Temperature)							
PARAMETER	TEST COND.	UNITS	MV6152 MV5152	MV6352 MV5352	MV64520 MV5452	MV64521	MV6752 MV5752
Forward voltage (V _f) typ.	I _f = 20 mA	V	2.0	2.1	2.2	2.2	2.0
	I _f = 20 mA	V	3.0	3.0	3.0	3.0	3.0
Luminous Intensity min.	I _f = 20 mA	mcd	17.0	10.0	12.0	30.0	17.0
	I _f = 20 mA	mcd	100.0	90.0	25.0	100.0	100.0
Peak wavelength	I _f = 20 mA	nm	635	585	562	562	635
Spectral line half width	I _f = 20 mA	nm	45	35	30	30	45
Capacitance typ.	V = 0, f = 1 MHz	pF	45	45	20	20	45
Reverse voltage (V _r) min.	I _r = 100 μA	V	5	5	5	5	5
Reverse current (I _r) max.	V _r = 5.0 V	μ A	100	100	100	100	100
Viewing angle (total)	See Fig. 4	degrees	28	28	35	35	28

ABSOLUTE MAXIMUM RATINGS (T _A =25°C Unless Otherwise Specified)			
	YELLOW	RED AND H. E. RED	GREEN
Power dissipation	85 mW	120 mW	120 mW
Derate linearly from 25°C (MVX452/4A from 50°C)	1.6 mW/°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
Lead soldering time at 260° C (See Note 2)	5 sec.	5 sec.	5 sec.
Continuous forward current	20 mA	35 mA	30 mA
Peak forward current (1 μsec pulse, 0.3% duty cycle)	60 mA	1.0 A	90 mA
Reverse voltage	5.0 V	5.0 V	5.0 V

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

TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES
(25°C Free Air Temperature Unless Otherwise Specified)

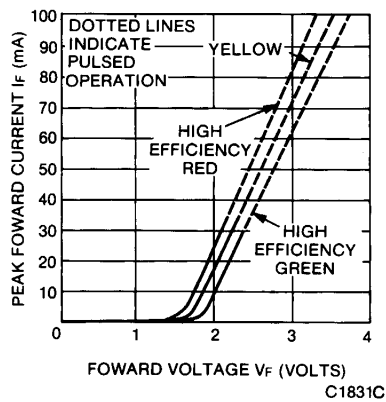


Fig. 1. Forward Current vs. Forward Voltage

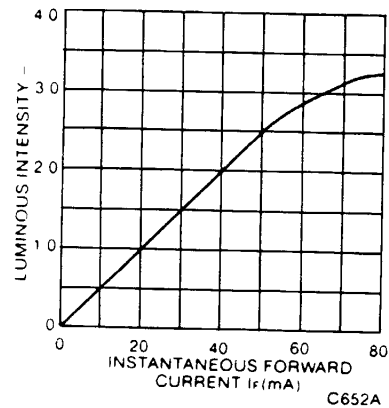


Fig. 2. Luminous Intensity vs. Forward Current

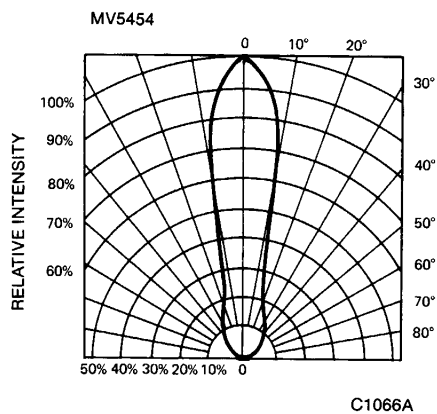


Fig. 3. Spatial Distribution (Note 1)

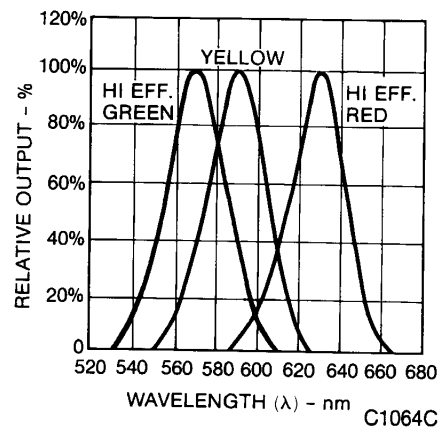


Fig. 4. Spectral Distribution

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