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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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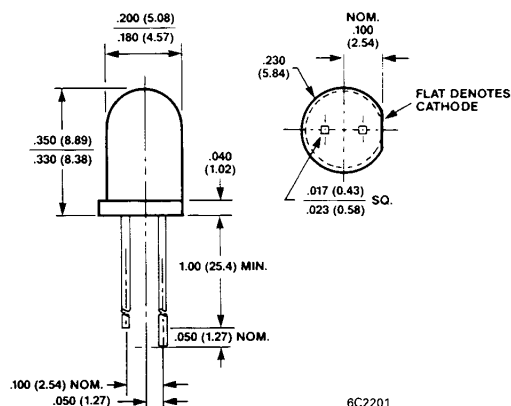
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



**MV5052
MV5053/6053**

**MV5054A-1/2/3
MV5055**

PACKAGE DIMENSIONS



DESCRIPTION

The MV505X Series of industry standard solid state indicators is made with gallium arsenide phosphide light emitting diodes encapsulated in epoxy lenses. Various lens effects give different design possibilities.

FEATURES

- Standard Red light source with various lens colors and effects
- Versatile mounting on PC board or panel
- Snap in mounting grommet MP52
- Long life—solid state reliability
- Low power requirements
- Compact, rugged, lightweight

PHYSICAL CHARACTERISTICS

CATHODE LONG	SOURCE COLOR	LENS TYPE	LENS EFFECT	APPLICATION
MV5052	Standard Red	Red Tint	Point Source	Backlighting
MV5053*	Standard Red	Red Diffused	Wide Beam	Direct View
MV5054A-1	Standard Red	Red Diffused	Narrow Beam	Direct View
MV5054A-2	Standard Red	Red Diffused	Narrow Beam	Direct View
MV5054A-3	Standard Red	Red Diffused	Narrow Beam	Direct View
MV5055	Standard Red	Red Diffused	Very Wide Beam	Direct View

*MV6053 – Anode Long also available.

ELECTRO OPTICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ Unless Otherwise Specified)								
PARAMETER	TEST COND.	5052	6053 5053	5054A-1	5054A-2	5054A-3	5055	UNIT
Luminous Intensity I_v min.	$I_f=20$ mA	0.7	0.5				0.1	mcd
	$I_f=10$ mA			1.0	2.0	3.0		mcd
Forward voltage V_f mcd	$I_f=20$ mA	2.2	2.2				2.2	V
	$I_f=10$ mA			2.2	2.2	2.2		V
Peak wavelengths λ_p typical	$I_f=20$ mA	660	660	660	660	660	660	nm
Spectral line half width typical	$I_f=20$ mA	20	20	20	20	20	20	nm
Capacitance typical	$V=0$ $f=1$ MHz	30	30	30	30	30	30	pF
Reverse current I_R max.	$V_R=5.0$ V	100	100	100	100	100	100	μA
Viewing angle typical, See Figures		72	80	24	24	24	150	degrees

ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ Unless Otherwise Specified)	
Power dissipation	180 mW
Derate linearly from 25°	2.0 mW/°C
Storage and operating temperatures	-55°C to +100°C
Lead soldering time at 260°C (See Note 2)	5 sec.
Continuous forward current	100 mA
Peak forward current (1 μ sec pulse, 0.3% duty cycle)	1.0 A
Reverse voltage	5.0 V

NOTES
1. The axis of spatial distribution are typically within a 10° cone with 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(1.6 mm) from the body of the device per MIL-S-750, with a dwell time of 5 seconds.

TYPICAL ELECTRO-OPTICAL CHARACTERISTICS (25°C Free Air Temperature)

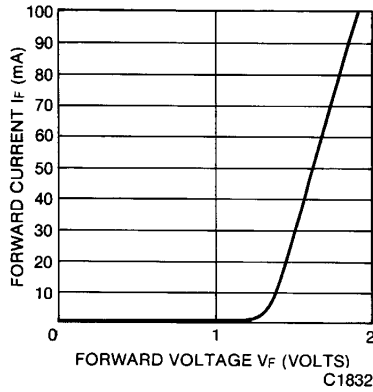


Fig. 1. Forward Current vs. Forward Voltage

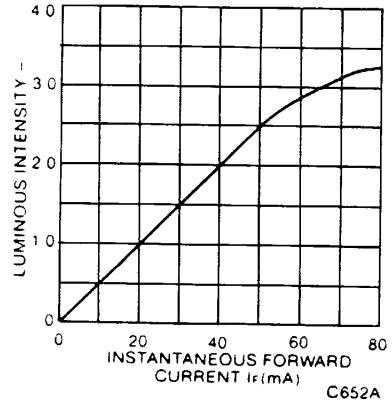


Fig. 2. Luminous Intensity vs. Forward Current

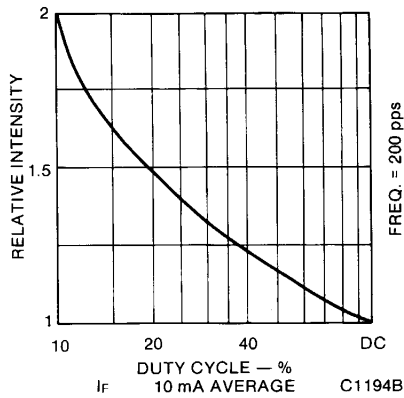


Fig. 3. Luminous Intensity vs. Duty Cycle

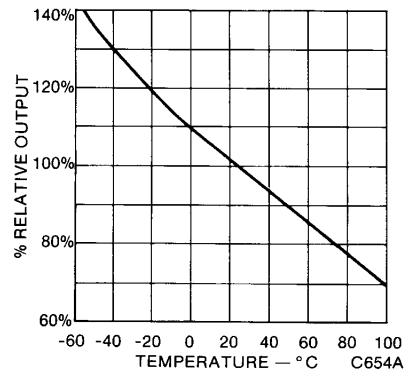


Fig. 4. Output vs. Temperature

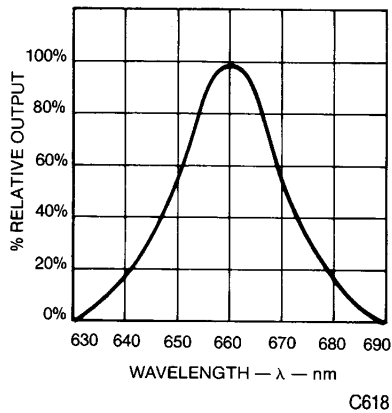


Fig. 5. Spectral Distribution

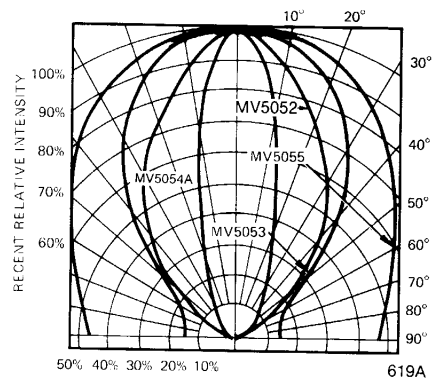


Fig. 6. Spatial Distribution (Note 1)



STANDARD RED T-1 3/4 SOLID STATE LAMPS

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