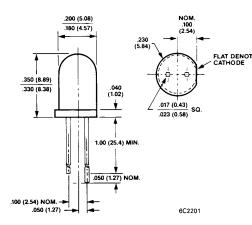


# STANDARD RED T-13/4 SOLID STATE LAMPS

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 FLAT DENOTES 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

CATHODE LONG	SOURCE	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	



# **STANDARD RED T-1**% **SOLID STATE LAMPS**

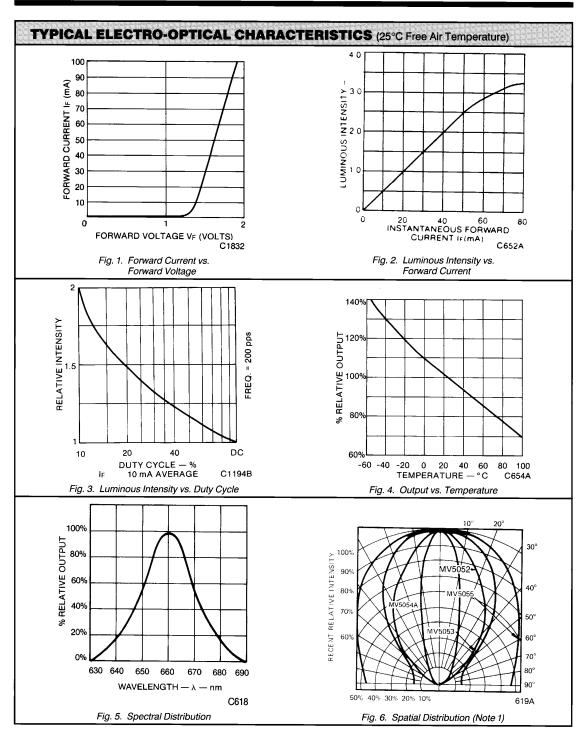
PARAMETER	TEST COND.	5052	6053 5053	5054A-1	5054A-2	5054A-3	5055	UNIT
Luminous Intensity I <sub>v</sub> min.	i <sub>F</sub> =20 mA I <sub>F</sub> =10 mA	0.7	0.5	1.0	2.0	3.0	0.1	mcd mcd
Forward voltage V <sub>F</sub> mcd	I <sub>F</sub> =20 mA I <sub>F</sub> =10 mA	2.2	2.2	2.2	2.2	2.2	2.2	V V
Peak wavelengths λp typical	I <sub>F</sub> =20 mA	660	660	660	660	660	660	nm
Spectral line half width typical	I <sub>F</sub> =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 <sub>R</sub> max.	V <sub>R</sub> =5.0 V	100	100	100	100	100	100	$\mu$ A
Viewing angle typical, See Figure	s	72	80	24	24	24	150	degree

ABSOLUTE MAXIMUM RATINGS (T <sub>A</sub> =25°C Unless Otherwise Specified)						
Power dissipation						
Derate linearly from 25°						
Storage and operating temperatures						
Lead soldering time at 260°C (See Note 2)						
Continuous forward current	100 mA					
Peak forward current (1 $\mu$ sec pulse, 0.3% duty cycle)						
Reverse voltage	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 (1.6 mm) from the body of the device per MIL-S-750, with a dwell time of 5 seconds.







# STANDARD RED T-1 3/4 SOLID STATE LAMPS

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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.