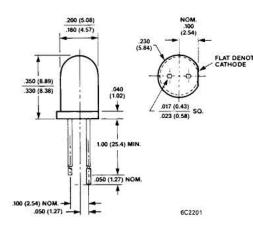


STANDARD RED T-13/4 SOLID STATE LAMPS

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 Backlighting	
MV5052	Standard Red	Red Tint	Point Source		
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-13/4 SOLID STATE LAMPS

PARAMETER	TEST COND.	5052	6053 5053	5054A-1	5054A-2	5054A-3	5055	UNIT
Luminous Intensity I _v min.	i_F =20 mA i_F =10 mA	0.7	0.5	1.0	2.0	3.0	0.1	mcd mcd
Forward voltage V _F mcd	I _F =20 mA I _F =10 mA	2.2	2.2	2.2	2.2	2.2	2.2	V
Peak wavelengths λp 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 In max.	V _R =5.0 V	100	100	100	100	100	100	μΑ
Viewing angle typical, See Figure	s	72	80	24	24	24	150	degrees

Power dissipation	180 mW
Derate linearly from 25°	2.0 mW/° C
Storage and operating temperatures	
Lead soldering time at 260°C (See Note 2)	5 sec.
Continuous forward current	
Peak forward current (1µsec pulse, 0.3% duty cycle)	1.0 A
Reverse voltage	

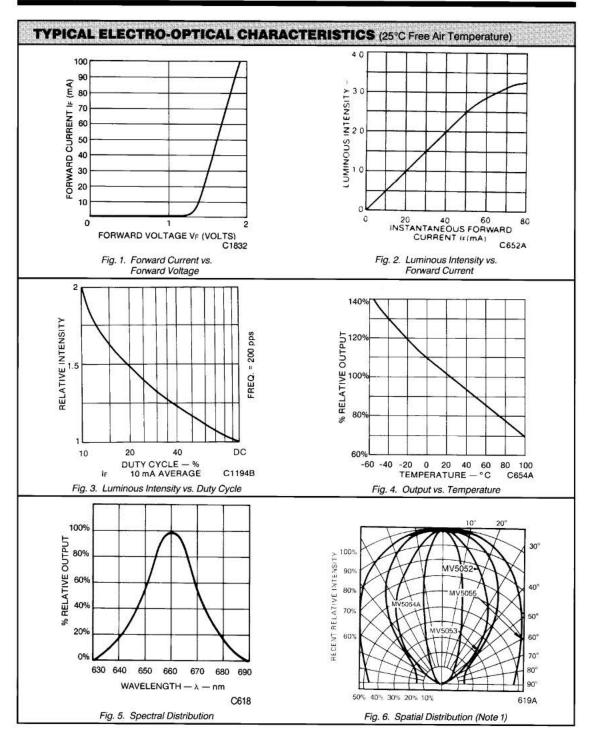
NOTES

- 1. 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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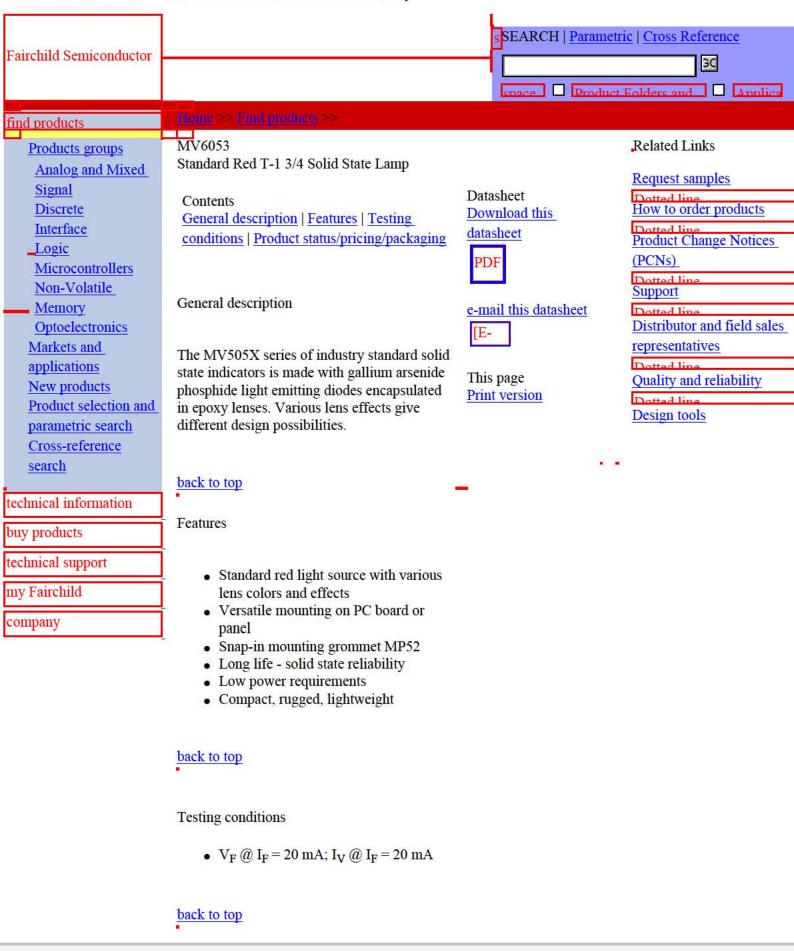
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