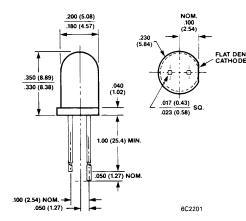


STANDARD RED T-13/4 SOLID STATE LAMPS

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**

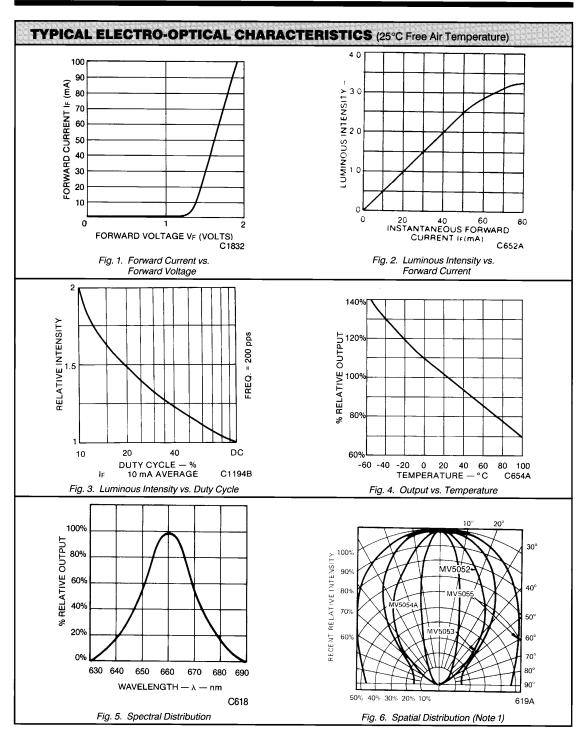
PARAMETER	TEST COND.	5052	6053 5053	5054A-1	5054A-2	5054A-3	5055	UNIT
Luminous Intensity I _v min.	i _F =20 mA I _F =10 mA	0.7	0.5	1.0	2.0	3.0	0.1	mcd mcd
Forward voltage V _F mcd	I _F =20 mA I _F =10 mA	2.2	2.2	2.2	2.2	2.2	2.2	V V
Peak wavelengths λp typical	I _F =20 mA	660	660	660	660	660	660	nm
Spectral 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 I _R max.	V _R =5.0 V	100	100	100	100	100	100	μ A
Viewing angle typical, See Figure	s	72	80	24	24	24	150	degree

ABSOLUTE MAXIMUM RATINGS (T _A =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 μ 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

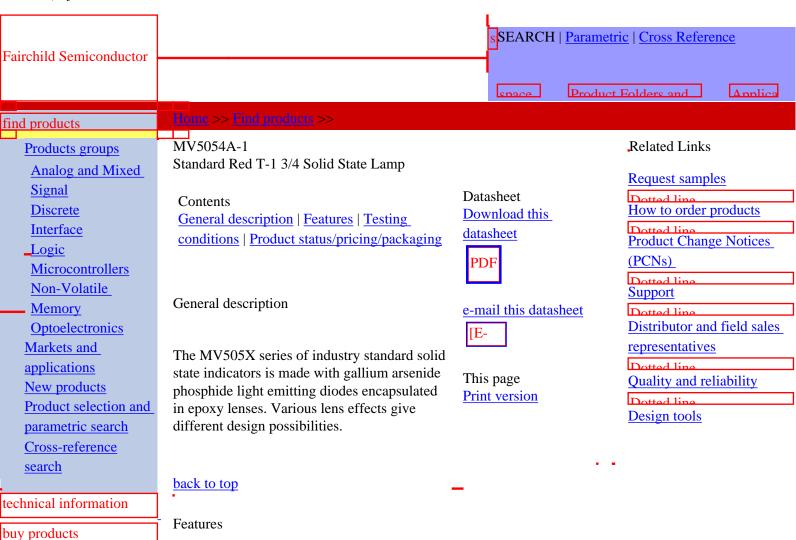
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- A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.



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- 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

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Testing conditions

• $V_F @ I_F = 20 \text{ mA}$; $I_V @ I_F = 20 \text{ mA}$

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Product status/pricing/packaging

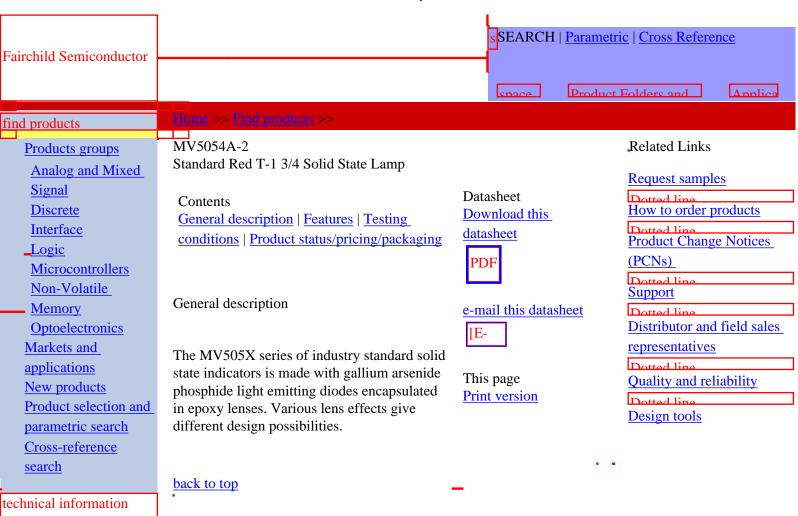
Product	Product status	Pricing*	Package type	Packing method
MV5054A1.A1A0	Full Production	\$0.058	T-1 3/4	AMMO
MV5054A1	Full Production	\$0.051	T-1 3/4	BULK
MV5054A1.A4A0	Full Production	\$0.058	T-1 3/4	AMMO

^{* 1,000} piece Budgetary Pricing

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Features

Testing conditions

• $V_F @ I_F = 20 \text{ mA}$; $I_V @ I_F = 20 \text{ mA}$

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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Packing method
MV5054A2.A2R0	Full Production	\$0.058	T-1 3/4	TAPE REEL
MV5054A2	Full Production	\$0.051	T-1 3/4	BULK
MV5054A2.A4R0	Full Production	\$0.058	T-1 3/4	TAPE REEL

^{* 1,000} piece Budgetary Pricing

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