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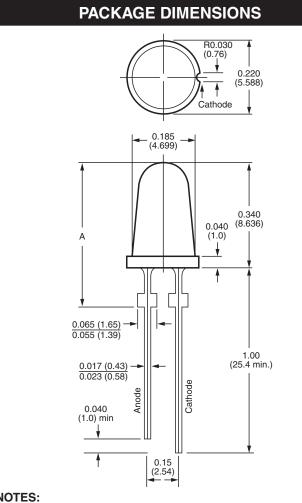
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TAPERED PACKAGE T-1³/4 SOLID STATE LAMPS

MV502XA



NOTES:

- 1. All dimensions in inches (mm).
- 2. Tolerances are ±0.010" (0.25mm) unless other specified.

PHYSICAL CHARACTERISTICS Туре Α Lens Color Lens Effect MV5021A White Diffused Soft MV5022A Point 0.430 ±0.015 (10.92 ±0.381) Transparent Red MV5023A Red Diffused Soft MV5024A Red Diffused Soft MV5025A Red Diffused Flooded 0.460 ±0.015 (11.60 ±0.381) MV5026A Dark Red Diffused Flooded

DESCRIPTION

The MV502X series of solid state indicators is made with gallium arsenide phosphide light emitting diodes. Encapsulation and lens is epoxy. Various lens effects are available for many indicators applications.

Standard Red

FEATURES

- Tapered barrel T-1³/4 .
- Red light source with various lens colors and effects •
- T-1³/4 with stand-off
- Versatile mounting on PC board or panel •

FAIRCHILD SEMICONDUCTOR®

TAPERED PACKAGE T-1³/4 SOLID STATE LAMPS

MV502XA

Standard Red

ABSOLUTE MAXIMUM RATINGS (T _A = 25°C unless otherwise specified)									
Parameter	Rating	Unit							
Power dissipation at 25°C ambient	180	mW							
Derate linearly from 25°C	2	mW°C							
Storage and operating temperatures	–55°C to +100	°C							
Lead soldering time at 260°C (See Note 1)	5	sec							
Continuous forward current at 25°C	100	mA							
Peak forward current (1µsec pulse, 0.3% duty cycle)	1.0	А							
Reverse voltage	5.0	V							

Notes

1. The leads of the device were Immersed in molten solder at 260°C to a point 1/16 inch (1.6mm) from the body of the device per MIL-S-750, with a dwell time of 5 seconds.

ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)										
Part Number		Test Conditions	Units	5021A	5022A	5023A	5024A	5025A	5026A	
Luminous Intensity	min.	I _F = 20 mA	mcd	0.5	0.6	0.4	0.9	0.1	0.1	
	typ.	I _F = 20 mA	mcd	1.6	1.6	1.6	3.0	0.4	0.6	
Peak Wavelength		I _F = 20 mA	nm	660	660	660	660	660	660	
Spectral line half width		I _F = 20 mA	nm	20	20	20	20	20	20	
Forward voltage V _F	typ.	I _F = 20 mA	V	1.65	1.65	1.65	1.65	1.65	1.65	
	max.	I _F = 20 mA	V	2.0	2.0	2.0	2.0	2.0	2.0	
Reverse current In	max.	V _R = 5.0V	μA	100	100	100	100	100	100	
Reverse voltage V _R	min.	I _R = 100 μA	V	5.0	5.0	5.0	5.0	5.0	5.0	
Capacitance	typ.	V = 0	pF	35	35	35	35	35	35	
Viewing Angle		Between 50% Points	degrees	90	90	90	60	180	90	
Rise time		10%-90% 50Ω system	nsec	50	50	50	50	50	50	
and fall time	typ.	90%-10% 50Ω system	nsec	50	50	50	50	50	50	



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TYPICAL PERFORMANCE CURVES

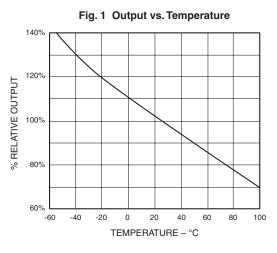
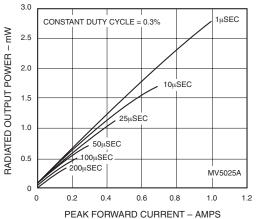


Fig. 3 Radiated Output Power vs. Peak Forward Current



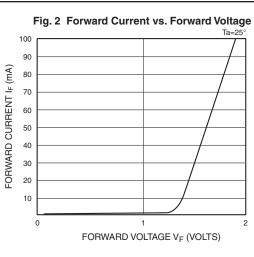
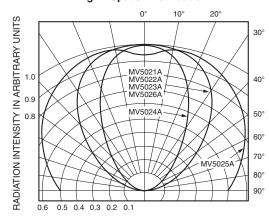
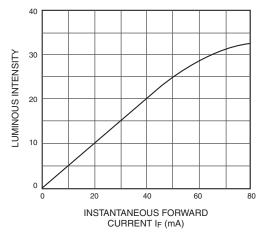


Fig. 4. Spatial Distribution









SEMICONDUCTOR®

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MV502XA

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