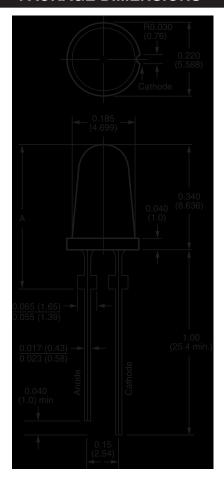


TAPERED PACKAGE T-1³/4 SOLID STATE LAMPS

MV502XA Standard Red

PACKAGE DIMENSIONS



NOTES:

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

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.

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

PHYSICAL CHARACTERISTICS							
Туре	A	Lens Color	Lens Effect				
MV5021A		White Diffused	Soft				
MV5022A	0.430 ±0.015 (10.92 ±0.381)	Transparent Red	Point				
MV5023A		Red Diffused	Soft				
MV5024A		Red Diffused	Soft				
MV5025A	0.460 ±0.015 (11.60 ±0.381)	Red Diffused	Flooded				
MV5026A	1	Dark Red Diffused	Flooded				



TAPERED PACKAGE T-1³/4 SOLID STATE LAMPS

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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	Α					
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.

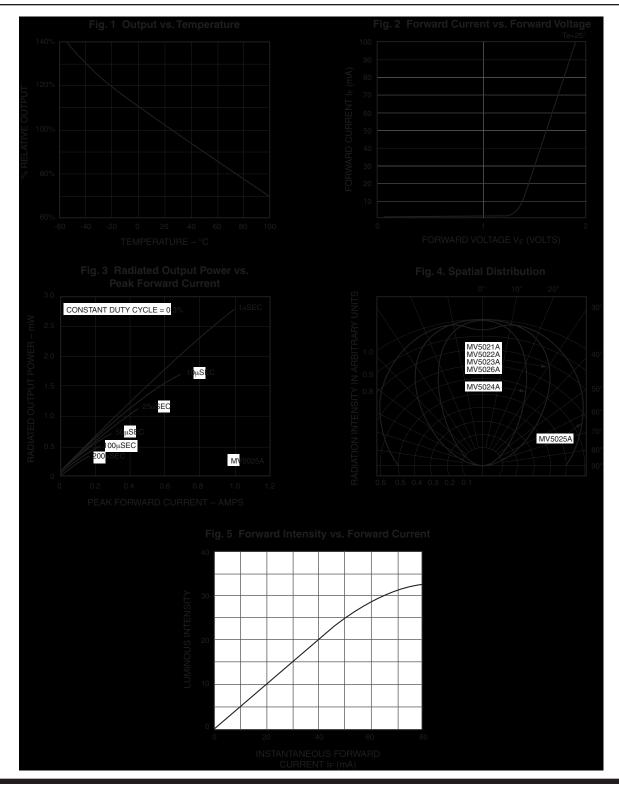
ELECTRICAL / OPTICAL CHARACTERISTICS (T _A =25°C)												
Part Number		Test Conditions	Units	5021A	5022A	5023A	5024A	5025A	5026A			
Luminous Intensity	min.	I _F = 20 mA	mcd	0.5	0.6	0.4	0.9	0.1	0.1			
	typ.	I _F = 20 mA	mcd	1.6	1.6	1.6	3.0	0.4	0.6			
Peak Wavelength		I _F = 20 mA	nm	660	660	660	660	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	μΑ	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			



TAPERED PACKAGE T-1³/4 SOLID STATE LAMPS

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TYPICAL PERFORMANCE CURVES





TAPERED PACKAGE T-13/4 SOLID STATE LAMPS

MV502XA Standard Red

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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.