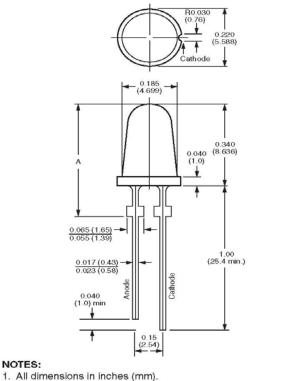


MV502XA

Standard Red

PACKAGE DIMENSIONS



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 avail -able for many indicators applications.

FEATURES

Tapered barrel T-1³/4

Red light source with various lens colors and effects $T\text{-}1^3/4$ with stand-off

Versatile mounting on $\ensuremath{\mathsf{PC}}$ board or panel

PHYSICAL C	HARACTERISTICS				
Туре	А	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		Dark Red Diffused	Flooded		



MV502XA

Standard Red

ABSOLUTE MAXIMUM RATINGS (TA = 25°C unless otherwise specifi ed)								
Rating	Unit							
180	mW							
2	m₩°C							
-55°C to +100	°C							
5	sec							
100	mA							
1.0	А							
5.0	V							
	Rating 180 2 -55°C to +100 5 100 1.0							

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 (TA =25°C)										
Part Number	Test Conditions	Units	5021A	5022A	5023A	5024A	5025A	5026A		
Luminous Intensity min.	IF = 20 mA	mcd	0.5	0.6	0.4	0.9	0.1	0.1		
typ.	IF = 20 mA	mcd	1.6	1.6	1.6	3.0	0.4	0.6		
Peak Wavelength	IF = 20 mA	nm	660	660	660	660	660	660		
Spectral line half width	IF = 20 mA	nm	20	20	20	20	20	20		
Forward voltage VF typ.	IF = 20 mA	V	1.65	1.65	1.65	1.65	1.65	1.65		
max.	IF = 20 mA	V	2.0	2.0	2.0	2.0	2.0	2.0		
Reverse current In max.	VR = 5.0V	μA	100	100	100	100	100	100		
Reverse voltage VR min.	IR = 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% 50 <u>0</u> system	nsec	50	50	50	50	50	50		
and fall time typ.	90%-10% 50Ω system	nsec	50	50	50	50	50	50		

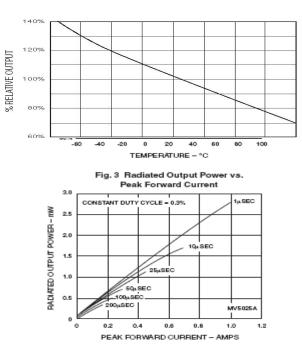


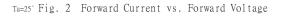
MV502XA

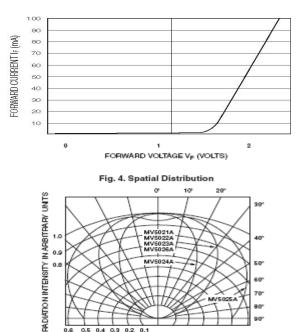
Standard Red

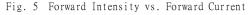
TYPICAL PERFORMANCE CURVES

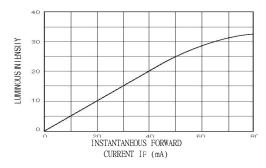
Fig. 1 Output vs. Temperature













MV502XA

Standard Red

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