

High Power PIN Diodes

V12

Features

- High Power Handling
- ♦ Low Loss / Low Distortion
- ♦ Voltage Ratings up to 1000 Volts
- ♦ Passivated Chip for Low Leakage Current
- Low Theta (θ) Due to Full Face Chip Bonding
- ♦ Leadless Low Inductance MELF Packages
- Various Package Options
- Available as Chips
- ♦ Fully RoHS Compliant
- Non-Magnetic Packages Available for MRI

Description

M/A-COM Technology Solutions MELF and HIPAX PIN diode series are designed for usage in switch and attenuator applications requiring high power handling and low distortion. The MELF and HIPAX PIN diodes incorporate a fully passivated PIN diode chip resulting in an extremely low reverse bias leakage current. The semiconductor technology utilized in the MELF and HIPAX families draws on M/A-COM Tech's substantial experience in PIN diode design and wafer fabrication. The result is a device which has a thick I-region and long carrier lifetime while maintaining low series resistance and capacitance values. The chips of the MELF and HIPAX PIN diodes are enclosed in a rugged ceramic package and is full face bonded to metal pins on both the anode and cathode. The result is a low loss PIN diode with low thermal resistance due to symmetrical thermal paths. The parts are offered in either magnetic or non-magnetic, HIPAX (axial leaded) or Metal Electrode Leadless Faced (MELF) surface mount packages for MRI applications. The MELF is a rectangular SMQ, package which is designed for high volume tape and reel assembly. This easy to use package design makes automatic pick and place, indexing and assembly, extremely easy. The parallel flat surfaces are suitable for most key jaw or vacuum pick-up techniques. All of the solderable surfaces are tin plated and compatible with industry standard reflow and vapor phase soldering processes. See page 7 of Application Note M538 on the M/A-COM Technology Solutions website for a typical solder reflow profile.

Package Styles







1072 & 1091

Applications

HIPAX PIN diodes are designed for use in a wide variety of switch and attenuator applications from HF through UHF frequencies and at power levels above 1kW, CW. The internal chip as well as each diode assembly has been comprehensively tested and characterized to ensure predictable and repeatable performance.

Design Recommendations

- **♦** Low Distortion Attenuators
 - •MA4P4301B
- ♦ Surface Mount Switches
 - •MA4P7101F
- ♦ Cellular Radio Antenna Switches
 - MA4P1200, MA4P1250

Absolute Maximum Ratings T_{AMB} = +25°C (Unless Otherwise Noted) ¹

Parameter	Absolute Maximum
D.C. Reverse Voltage (V _R)	(See Tables)
Operating Chip Junction Temperature	-55°C to +175°C
Storage Temperature	-55°C to +200°C
Installation Temperature	+280°C for 30 Seconds
ESD	Class 1A, HBM

Notes

- 1. Operation of this device above any one of these parameters may cause permanent damage.
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MA4P1000 Series Electrical Specifications @ T_{AMB} = +25°C

	V _R Reverse Voltage V _{DC}		C _T Total Capacitance pF		$egin{array}{c} R_{S} \ Series \ Resistance \ \Omega \end{array}$		R_P Parallel Resistance $k\Omega$		
Part Number (NM Indicates Non-Magnetic)		dition Ι0 μΑ	Conditions f = 1 MHz V _R = 50 V		f = 1 MHz		Conditions f = 100 MHz I _F = 50 mA		$\frac{\text{Conditions}}{\text{f = 100 MHz}}$ $V_R = 0 \text{ V}$
	MINIMUM	MAXIMUM RATING	TYPICAL MAXIMUM		TYPICAL	MAXIMUM	MINIMUM		
MA4P1200 - 401T	50	100	1.2	1.5	0.5	0.75	5		
MA4P1200NM - 401T	50	100	1.2	1.5	0.5	0.75	5		
MA4P1250 -1072T	50	100	0.8	1.2	0.5	0.75	5		
MA4P1250NM -1072T	50	100	0.8	1.2	0.5	0.75	5		
MA4P1450 -1091T	50	100	1.8	2.5	0.5	0.75	5		
MA4P1450NM -1091T	50	100	1.8	2.5	0.5	0.75	5		

Part Number (NM Indicates Non-Magnetic)	Condi		Carrier Cond	Lifetime ditions 10 mA	Harmonic R(2a/a)	rd Bias Distortion * R(3a/a) ditions 100 MHz	Harmonic R(2a/a)	se Bias Distortion – R(3a/a) ditions 100 MHz
	TYPICAL	MAXIMUM RATING	MINIMUM	TYPICAL	MINIMUM	TYPICAL	MINIMUM	TYPICAL
MA4P1200 - 401T	0.85	1.0	2	8	80	90	60	70
MA4P1200NM - 401T	0.85	1.0	2	8	80	90	60	70
MA4P1250 -1072T	0.85	1.0	2	8	80	90	60	70
MA4P1250NM -1072T	0.85	1.0	2	8	80	90	60	70
MA4P1450 -1091T	0.85	1.0	2	2 8		90	60	70
MA4P1450NM -1091T	0.85	1.0	2	8	80	90	60	70

^{*}Note: Part numbers having NM in the base part number or ending in - 401T are non-magnetic packages

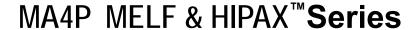
Power Dissipation and Thermal Resistance Ratings @ T_{AMB} = +25°C

Package	CONDITION	MA4P1200	(NM)-401T	MA4P1250	(NM)-1072T	MA4P1450(NM)-1091T	
Style	CONDITION	P _{DISS}	P _{DISS} θ _{JC}		θ_{JC}	P _{DISS}	θ _{JC}
В	No Heatsink	1.5 W	15°C/W	_	_	-	_
Axial Lead	Lead Length 1/4"	5.5W	15 C/W	_	_	-	_
F	No Heatsink			6W	15°C/W	10W	5°C/W
MELF	Infinite Heatsink			18W	15 C/VV	30W	5 C/VV

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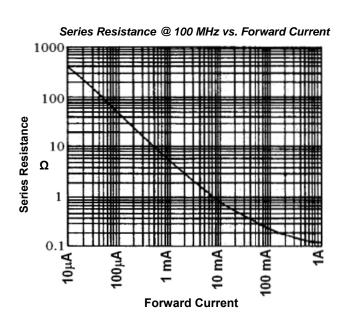
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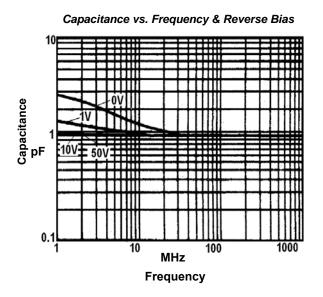


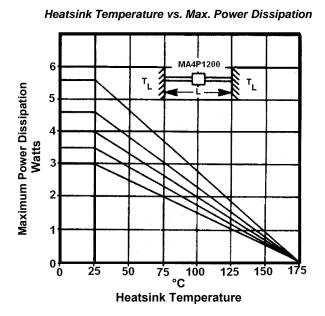


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Typical Performance Curves @ T_{AMB} = +25°C MA4P1200 Series







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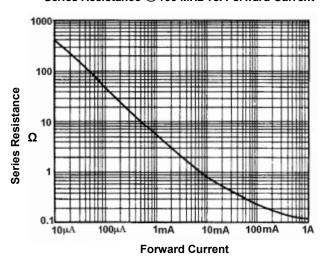


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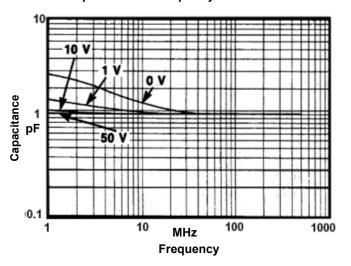
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Typical Performance Curves @ T_{AMB} = +25°C MA4P1250 Series

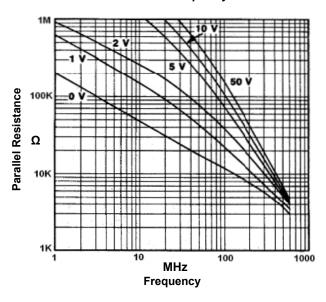
Series Resistance @ 100 MHz vs. Forward Current



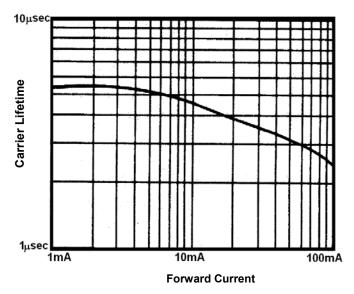
Capacitance vs. Frequency & Reverse Bias



Parallel Resistance vs. Frequency & Reverse Bias



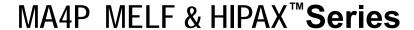
Carrier Lifetime vs. Forward Bias Current



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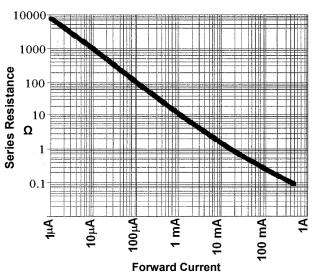




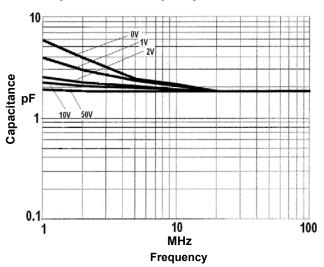
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Typical Performance Curves @ T_{AMB} = +25°C MA4P1450 Series

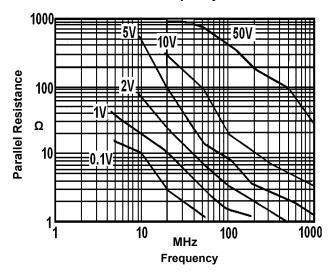
Series Resistance @ 100 MHz vs. Forward Current



Capacitance vs. Frequency and Reverse Bias



Parallel Resistance vs. Frequency and Reverse Bias



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MA4P4000 - MA4P7100 Series Electrical Specifications @ T_{AMB} = +25°C

Parameter	Symbol	Condition	MA4P4000	MA4P4300	MA4P7000	MA4P7100
Maximum Series Resistance	Rs	I _F = 100 mA	0.5 Ω	1.0 Ω	0.9 Ω	0.5 Ω
Maximum Total Capacitance	C _T	V _R = 100 V	2.2 pF	2.0 pF	0.7 pF	1.0 pF
Minimum Parallel Resistance	R _P	V _R = 100 V	20 kΩ	50 kΩ	200 kΩ	100 kΩ
Minimum Carrier Lifetime	T _L	I _F = 10 mA	20 µs	15 µs	5 µs	2.5 µs
Maximum Forward Voltage	V _F	I _F = 100 mA	1.0 V	1.2 V	1.0 V	1.0 V
Maximum Reverse Current	I _R	At Maximum Rated	1 μΑ	1 μΑ	1 μΑ	1 μΑ
Nominal I-Region Width	μ	_	175 µm	300 µm	175 µm	100 µm

Maximum Rated Reverse Voltage (V_R)

Maximum Rated Reverse	MA4P4000 Series	MA4P4300 Series	MA4P7000 Series	MA4P7100 Series
100 Volts	MA4P4001B-402	MA4P4301B-402	MA4P7001F-1072T	MA4P7101B-401/401T*
100 Volts	MA4P4001BNM-402*	MA4P4301F-1091T	_	MA4P7101F-1072T
200 Volts	MA4P4002B-402	_	MA4P7002B-401T	MA4P7102B-401/401T
200 Volts	MA4P4002F-1091T	_	MA4P7002F-1072T	MA4P7102F-1072T
400 Volts	_	_	_	MA4P7104B-401/401T
400 Volts	_	_	_	MA4P7104F-1072T
600 Volts	MA4P4006B-402	_	MA4P7006B-401T	_
600 Volts	MA4P4006F-1091T	_	MA4P7006F-1072T	_
****			00 404/404 T	

*Note: Part numbers having NM in the base part , ending in - 402 or - 401/401T are non-magnetic packages

Power Dissipation and Thermal Resistance Ratings @ T_{AMB} = +25°C

Package Style	Condition	MA4P4000		MA4P4300		MA4P7000		MA4P7100	
i ackage otyle	Condition	P _{DISS}	θ _{JC}						
В	1/4" Lead Length	12 W	12.5°C/W	10 W	15°C/W	5 W	30°C/W	6 W	25°C/W
Axial Leaded	No Heatsink	2.5 W	_	2.5 W	_	1.5 W	_	1.5 W	_
F MELF	Infinite Heatsink	7.5 W	20°C/W	5 W	30°C/W	3 W	50°C/W	3 W	50°C/W
Both B and F	Single 1 µs pulse	100 kW	_	100 kW	_	15 kW		15 kW	_
Both B and F	Single 100 µs pulse	5 kW	0.03°C/W	5 kW	0.03°C/W	300 W	0.5°C/W	300 W	0.5°C/W

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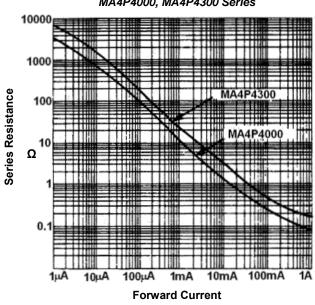


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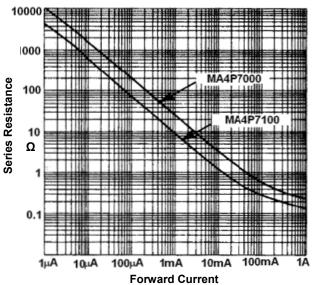
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Typical Performance Curves @ T_{AMB} = +25°C MA4P4000,MA4P4300, MA4P7000, MA4P7100 Series

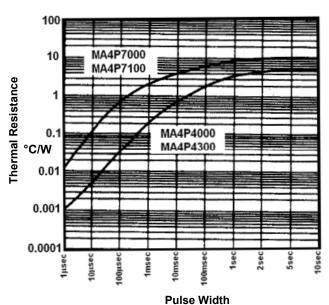
Series Resistance at 100 MHz vs. Forward Current MA4P4000, MA4P4300 Series



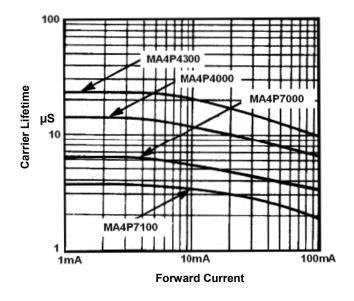
Series Resistance at 100 MHz vs. Forward Current MA4P7000, MA4P7100 Series



Thermal Resistance vs. Pulse Width MA4P4000, MA4P4300, MA4P7000 & MA4P7100 Series



Carrier Lifetime vs. Forward Bias Current MA4P4000, MA4P4300, MA4P7000 & MA4P7100 Series



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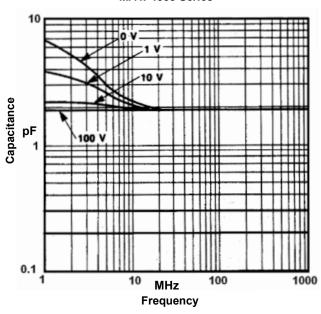




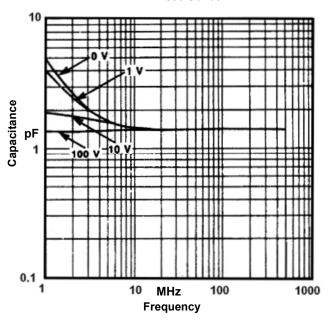
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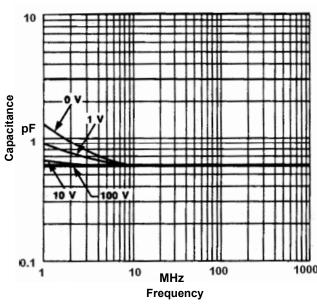
Capacitance vs. Frequency & Reverse Bias MA4P4000 Series



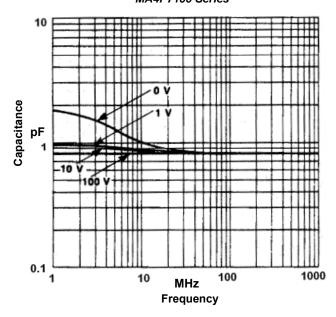
Capacitance vs. Frequency & Reverse Bias MA4P4300 Series



Capacitance vs. Frequency & Reverse Bias MA4P7000 Series



Capacitance vs. Frequency & Reverse Bias MA4P7100 Series



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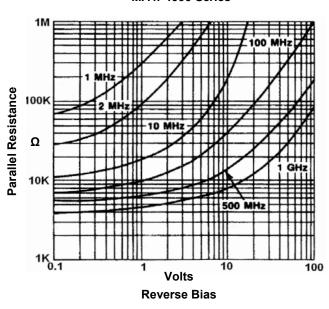




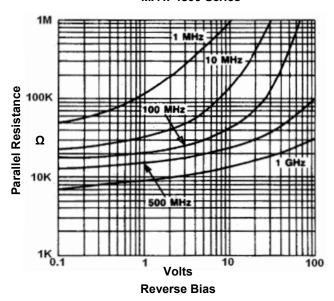
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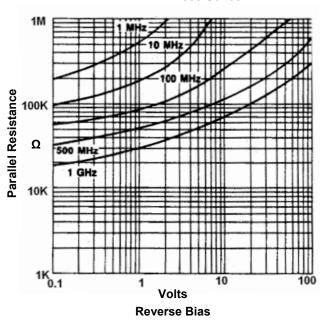
Parallel Resistance vs. Reverse Bias & Frequency
MA4P4000 Series



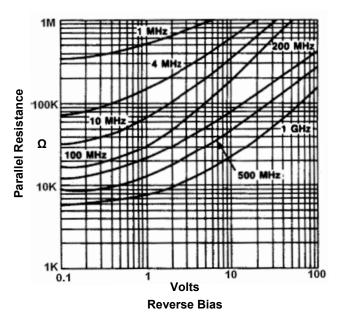
Parallel Resistance vs. Reverse Bias & Frequency
MA4P4300 Series



Parallel Resistance vs. Reverse Bias & Frequency
MA4P7000 Series



Parallel Resistance vs. Reverse Bias & Frequency MA4P7100 Series



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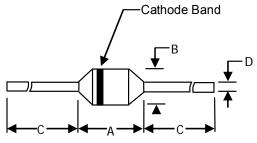


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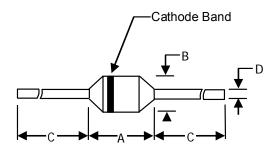
Case Styles

401 Axial Leaded Packages



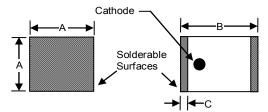
401 Package (tape and reel)	Dimensior	INCHES		N	IM
500 or 1000pcs/reel	sion	MIN.	MAX	MIN.	MAX.
MA4P1200-401T	Α	_	0.130	_	3.30
MA4P1200NM-401T MA4P7002B-401T MA4P7006B-401T	В	_	0.090	_	2.29
MA4P7101B-401T	С	0.975		24.77	_
MA4P7102B-401T MA4P7104B-401T	D	0.027	0.029	0.69	0.74

402 Axial Leaded Packages



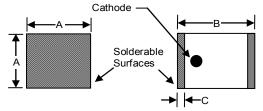
402 Package (bulk only)	Dimension MIN. MAX		М	М	
100pcs/bag	sion	MIN.	MAX	MIN.	MAX.
MA4P4001B-402	Α	_	0.230	_	5.84
MA4P4001BNM-402 MA4P4002B-402	В	_	0.140	_	3.56
MA4P4002B-402 MA4P4006B-402 MA4P4301B-402	С	0.975		24.77	_
	D	0.039	0.041	0.99	1.04

1091 MELF Surface Mount Packages



1091 Package (tape and reel only)	Dimensior	INCHES		N	IM
500pcs/reel	ion	MIN.	MAX.	MIN.	MAX.
MA4P1450-1091T MA4P1450NM-1091T	Α	0.138	0.155	3.51	3.94
MA4P4001F-1091T MA4P4002F-1091T	В	0.181	0.191	4.57	4.85
MA4P4006F-1091T MA4P4301F-1091T	С	0.011	0.026	0.279	0.660

1072 MELF Surface Mount Packages



1072 Package (tape and reel only)	Dimensior	INCHES		М	М
1500pcs/reel	ion	MIN.	MAX.	MIN.	MAX.
MA4P1250-1072T MA4P1250NM-1072T	Α	0.080	0.095	2.032	2.413
MA4P7001F-1072T MA4P7002F-1072T MA4P7006F-1072T	В	0.115	0.125	2.921	3.175
MA4P7101F-1072T MA4P7104F-1072T	С	0.008	0.023	0.203	0.584

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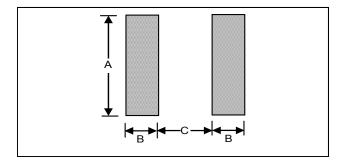
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MELF Assembly Recommendations

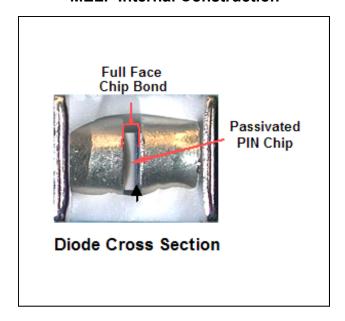
- Devices may be soldered using standard 60Sn/40Pb or RoHS compliant solders. Axial leads and solderable surfaces of MELF devices are tin plated 50 μM thick to ensure an optimum connection.
- ◆ For recommended Sn/Pb and RoHS soldering profiles See Application Note M538 on the M/A-COM website.

Circuit Pad Layout for MELF Diodes

Dimension	Package 107		Packag 10	
	inches mm		inches	mm
Α	0.093	2.36	0.150	3.81
В	0.050	1.27	0.050	1.27
С	0.060	1.52	0.100	2.54



MELF Internal Construction



Ordering Information

MELF diodes are available in tape and reel in quantities as shown in table below

Package Style	Quantity (7" Reel)	Bulk Devices Per Bag
1072T	1500	N/A
1091T	500	N/A

Tape and reel information can be found on the M/A-COM website at http://www.macomtech.com/Application Notes/pdf/M513.pdf

^{*}Specifications subject to change without notice

¹ ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed. PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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High Power PIN Diodes

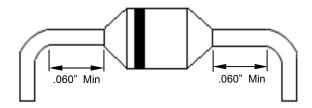
V12

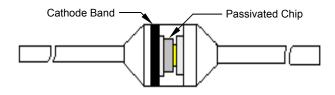
Axial Leaded HIPAX Assembly Recommendations

- ♦ Bends on case styles 401 and 402, axially leaded devices, must be made while holding the lead firm and forming the bend no closer than .060 inches from the body of the part. Bending the lead < 0.060 inches from the body of the part is not recommended and may cause internal damage to the chip. Appropriate fixturing should be used.
- Devices may be soldered using standard 60Sn/40Pb or any RoHS compliant solders. Axial leads are tin plated 50μm thick to ensure an optimum connection.
- ◆ For recommended Sn/Pb and RoHS soldering profiles see page 7 of Application Note <u>M538</u> on the M/A-COM Technology Solutions website.

Case Style 401 & 402 Minimum Bend Distance







Ordering Information

Axial leaded diodes are available in tape and reel or bulk in quantities shown in the table below

Package Style	Quantity Per Reel	Bulk Devices Per Bag
401T	500 or 1000	N/A
402	N/A	100

Environmental Ratings

HIPAX PIN diodes are designed to meet most environmental and electrical requirements and may be ordered screened to MIL-STD-750 specifications as described in the table below.

TEST	METHOD	DESCRIPTION/ CONDITIONS
Moisture Resistance	1021	85°C, 85% Relative Humidity, 168 hrs
High Temperature Storage	1031	+175°C , 250 Hours
HTRB	1038	80% of rated V _R , 50°C, 96 Hours
Temperature Shock	1051	-65°C to +175°C, 20 Cycles
Fine Leak	1071 Cond. H	1 X 10 ⁻⁷ CC/Sec
Constant Acceleration	2006	20,000 G's
Solderability	2026	IPC/JDEC J-STD-02
Tension ¹	2036.3 Cond. A	2 Lbs., 30 Seconds
Lead Fatigue ¹	2036.3 Cond. E	3 Cycles, 8 oz., 90°,

Note:

1) Test applicable to HIPAX axially leaded devices only.

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