

High Power PIN Diodes

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



401 & 402

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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V14

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Part Number (NM Indicates Non-Magnetic)	V _R Reverse Voltage V _{DC} <u>Condition</u> I _R = 10 μA		Total Ca <u>Cor</u>	C _T ppacitance pF <u>nditions</u> 1 MHz	R _s Series Resistance Ω <u>Conditions</u> f = 100 MHz		R _P Parallel Resistance kΩ <u>Conditions</u> f = 100 MHz
		MAYIMI IM	$V_R = 50 V$		I _F = 50 mA TYPICAL MAXIMUM		V _R = 0 V 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

MA4P1000 Series Electrical Specifications @ T_{AMB} = +25°C

Part Number (NM Indicates Non-Magnetic)	V _F Forward Voltage (Max. I _{Forward} @ 1V ≤ 1.5A) <u>Condition</u> I _F = 50 mA		Carrier <u>Cone</u>	Lifetime ditions 10 mA	Harmonic R(2a/a) <u>Con</u>	rd Bias Distortion * R(3a/a) Iditions 100 MHz	Harmonic R(2a/a) · <u>Conc</u>	se Bias Distortion - R(3a/a) <u>litions</u> 00 MHz
	TYPICAL	MAXIMUM RATING			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	8	80	90	60	70
MA4P1450NM -1091T	0.85	1.0	2	8	80	90	60	70

*Notes:

1.) "NM" in the base part number signifies non-magnetic package.

2.) "T" suffix denotes tape and reel

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}	θ _{JC}	P _{DISS}	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/W	30W	5 0/10

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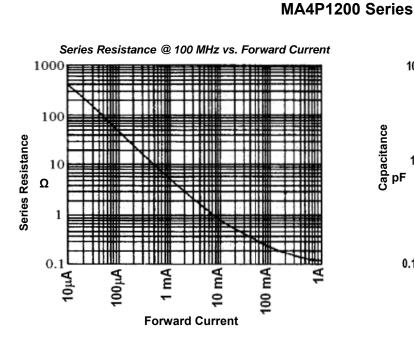
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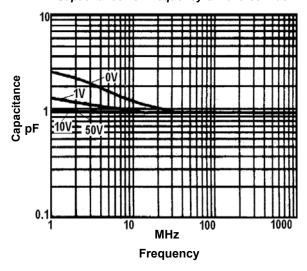


Typical Performance Curves @ T_{AMB} = +25°C

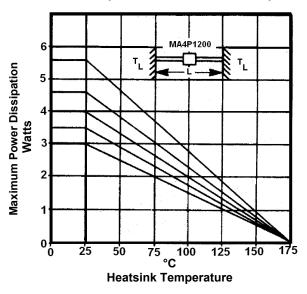
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Capacitance vs. Frequency & Reverse Bias



Heatsink Temperature vs. Max. Power Dissipation



Parallel Resistance vs. Frequency & Reverse Bias

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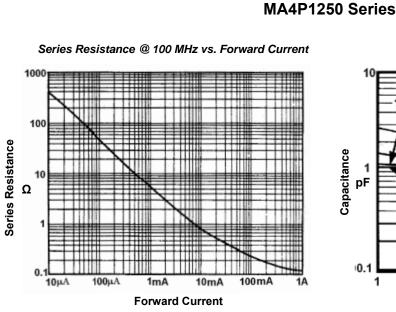
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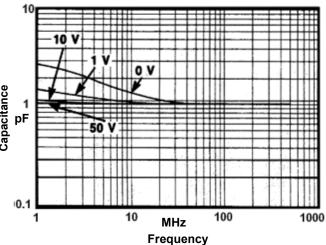
Typical Performance Curves @ T_{AMB} = +25°C

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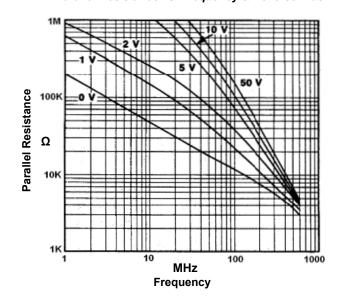


Parallel Resistance vs. Frequency & Reverse Bias





Carrier Lifetime vs. Forward Bias Current



10µsec eta line 1µsec 1µsec 1mA 10mA 10mA 10mA 100mA Forward Current

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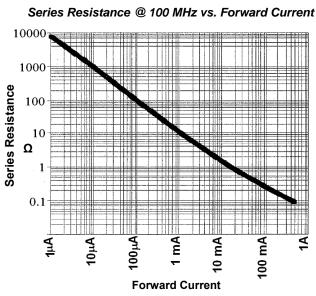


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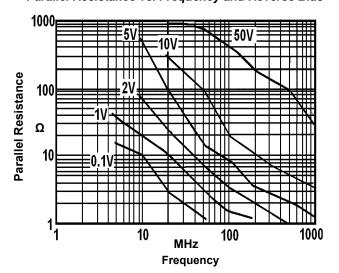
MA4P MELF & HIPAX[™]Series

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

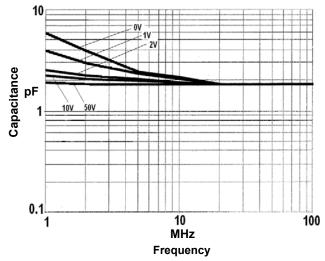
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Parallel Resistance vs. Frequency and Reverse Bias



Capacitance vs. Frequency and Reverse Bias



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

Parameter	Symbol	Condition	MA4P4000 Series	MA4P4300 Series	MA4P7000 Series	MA4P7100 Series
Maximum Series Resistance	Rs	I _F = 100 mA	0.5 Ω	1.0 Ω	0.9 Ω	0.5 Ω
Maximum Total Capacitance	CT	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 k Ω	200 kΩ	100 kΩ
Minimum Carrier Lifetime	TL	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 max. rated voltage	1 µA	1 µA	1 µA	1 µA
Nominal I-Region Width	μ	_	175 µm	300 µm	175 µm	100 µm

Maximum Reverse Voltage Rating (V_R)

Maximum Reverse Voltage Rating	MA4P4000 Series	MA4P4300 Series	MA4P7000 Series	MA4P7100 Series
100 Volts	MA4P4001B-402 MA4P4001BNM-402 MA4P4001F-1091T	MA4P4301B-402 MA4P4301F-1091T	MA4P7001F-1072T	MA4P7101B-401T MA4P7101F-1072T
200 Volts	MA4P4002B-402 MA4P4002F-1091T	MA4P4302B-402	MA4P7002B-401T MA4P7002F-1072T	MA4P7102B-401T MA4P7102F-1072T
400 Volts	_	—	_	MA4P7104B-401T MA4P7104F-1072T
600 Volts	MA4P4006F-1091T MA4P4006B-402	_	MA4P7006B-401T MA4P7006F-1072T	_

*Notes:

1.) "NM" in the base part number signifies non-magnetic package.

2.) "T" suffix denotes tape and reel

Package Style Condition		MA4P4000 Series		MA4P4300 Series		MA4P7000 Series		MA4P7100 Series	
		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	Infinite Heatsink	7.5 W	20°C/W	5 W	30°C/W	10 W	15°C/W	11.5 W	13°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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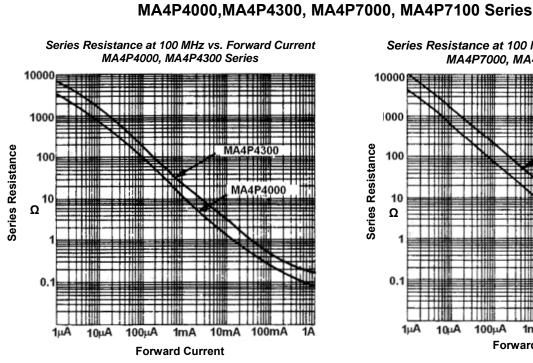
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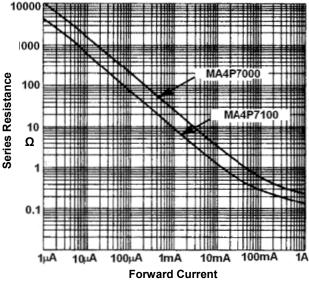
Typical Performance Curves @ T_{AMB} = +25°C



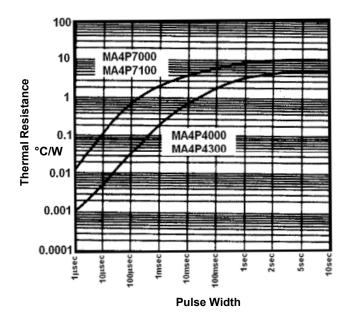
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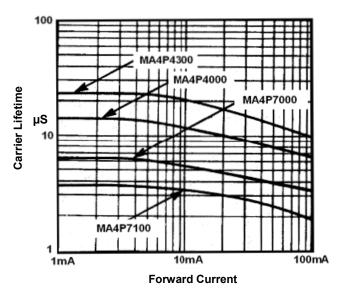
Series Resistance at 100 MHz vs. Forward Current MA4P7000, MA4P7100 Series



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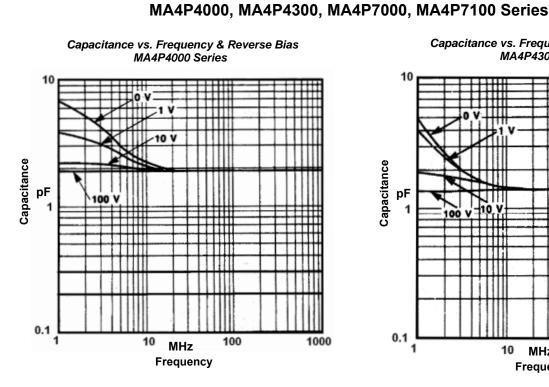
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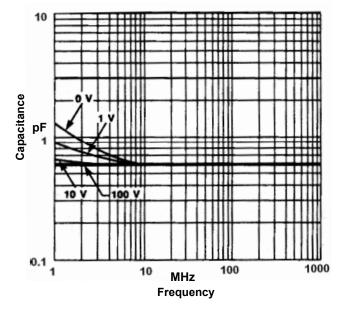
Typical Performance Curves @ T_{AMB} = +25°C



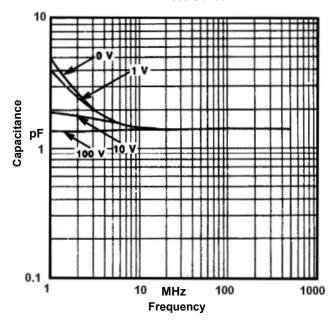
High Power PIN Diodes



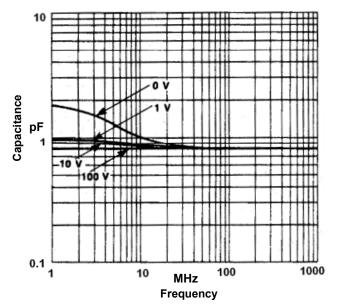
Capacitance vs. Frequency & Reverse Bias MA4P7000 Series



Capacitance vs. Frequency & Reverse Bias MA4P4300 Series



Capacitance vs. Frequency & Reverse Bias MA4P7100 Series



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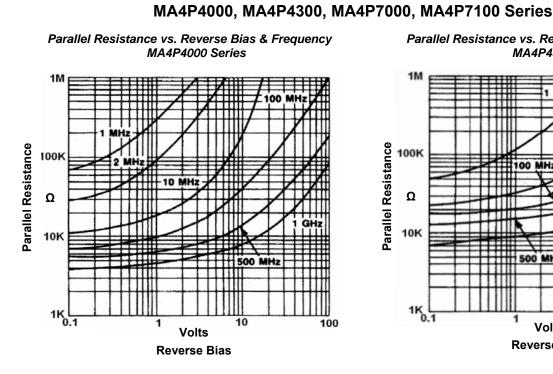
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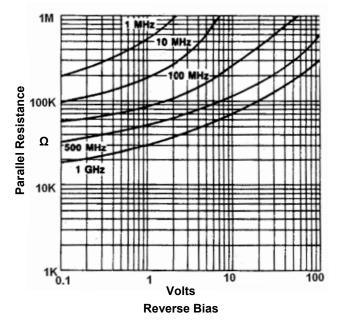


Typical Performance Curves @ T_{AMB} = +25°C

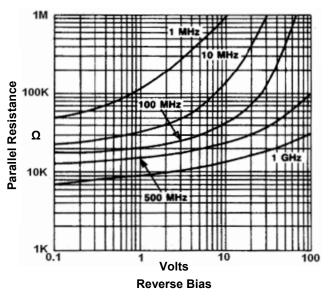
High Power PIN Diodes



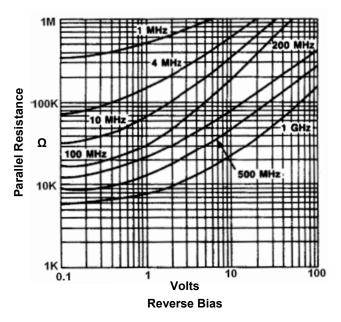
Parallel Resistance vs. Reverse Bias & Frequency MA4P7000 Series



Parallel Resistance vs. Reverse Bias & Frequency MA4P4300 Series



Parallel Resistance vs. Reverse Bias & Frequency MA4P7100 Series



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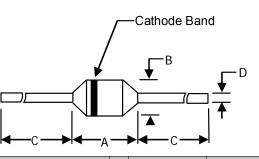
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Case Styles

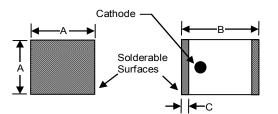
402 Axial Leaded Packages



401 Axial Leaded Packages

401 Package (tape and reel only)	Dimensior MIN. MA		INCHES		м
500 or 1000pcs/reel specify when ordering	sion	MIN.	MAX.	MIN.	MAX.
MA4P1200-401T	А	_	0.130	_	3.30
MA4P1200NM-401T MA4P7002B-401T	В	_	0.090	—	2.29
MA4P7006B-401T MA4P7101B-401T MA4P7102B-401T	С	0.975		24.77	—
MA4P7104B-401T	D	0.027	0.029	0.69	0.74

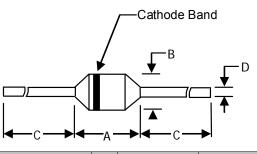
1091 MELF Surface Mount Packages



1091 Package (tape and reel only)	Dimension	INCHES		N	м
500pcs/reel	sion	MIN.	MAX.	MIN.	MAX.
MA4P1450-1091T MA4P1450NM-1091T	А	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

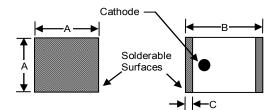
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402 Package (bulk only)	Dimensior	INCHES		м	м
100pcs/bag	ion	MIN.	MAX	MIN.	MAX.
MA4P4001B-402	A	_	0.230	_	5.84
MA4P4001BNM-402 MA4P4002B-402	В	_	0.140	—	3.56
MA4P4006B-402 MA4P4301B-402	С	0.975		24.77	—
MA4P4302B-402	D	0.039	0.041	0.99	1.04

1072 MELF Surface Mount Packages



1072 Package (tape and reel only) 1500 or 5000pcs/reel	Dimensior	INC	HES	м	м
specify when ordering	sion	MIN.	MAX.	MIN.	MAX.
MA4P1250-1072T MA4P1250NM-1072T	A	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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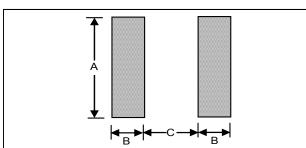


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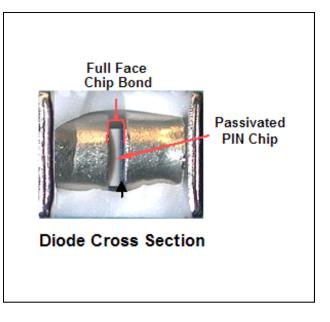
MELF Assembly Recommendations

- 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.

Dimension	Package 107		Package Style 1091			
	inches mm		inches	mm		
А	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		



Circuit Pad Layout for MELF Diodes 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 or 5000	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

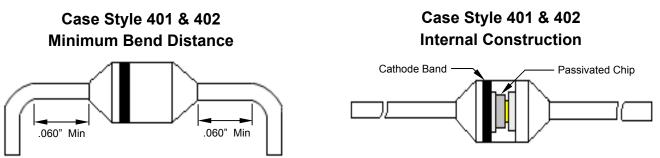
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High Power PIN Diodes

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.</p>
- 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.



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 (specify qty. when ordering)	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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