

Surface Mount Plastic PIN Diodes

Rev. V19

Features

- Industry Standard Surface Mount Packages
- Lead-Free (RoHS Compliant) Equivalents Available with 260 °C Reflow Compatibility
- Low Loss, High Isolation Switching Diodes
- Low Distortion Attenuator Diodes
- Single and Dual Diode Configurations
- Tape and Reel Packaging

Description and Applications

M/A-COM Technology Solutions offers silicon PIN diodes in five standard, low cost, surface mount plastic packages for use as switches and attenuators. The diodes are offered with standard Sn/Pb plating, as well as with 100% matte Sn plating on our RoHS compliant devices. These PIN diodes feature a variety of I-region lengths resulting in lower resistance, and lower capacitance devices for various microwave control circuit applications.

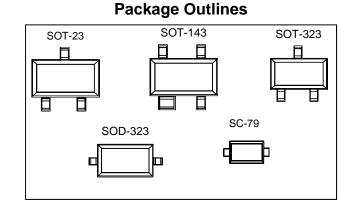
The MA4P275 / MA4P7436 / MADP-007436 series offer the lowest series resistance for best performance as low loss series switches and high isolation shunt switches.

The MA4P789 / MA4P7433 / MADP-007433 series have the lowest capacitance and offers the highest isolation in series and series-shunt switches through 3GHz.

The MA4P282 / MA4P7447 / MADP-007155 series, the MA4P274 / MA4P7455 / MADP-007455 series and the MADP-007448 series are general purpose PIN diodes useful as either switches or attenuators.

The MA4P277 / MA4P7437 / MADP-007437 series and MA4P278 / MA4P7438 / MADP-007438 series device have thicker intrinsic regions to provide lower distortion in attenuator circuits.

The MA4P290/MADP-007167 series devices have the thickest I-Region, offering the lowest distortion and highest IP3 for current controlled attenuator circuits. These devices are ideal for AGC functions for infrastructure and



The diodes are come in various chip configurations and are available as single diodes, series tees (ST), series tee reverse (STR), common cathode pairs (CK), common anode pairs (CA), and unconnected pairs in the respective featured packages.

M/A-COM's PIN diodes are available in the SOT-23 (case style 287), the SOT-143 (case style 1068), the SOT-323/ SC-70 (3L) (case style 1146), the SOD-323 (case style 1141), and the SC-79 (case style 1279) packages. These packages are supplied on tape and reel for automatic pick and place assembly. The tape and reel suffix designation is a "T" at the end of the part number.

Parameter	Absolute Maximum
Operating Temperature	-65°C to +150 °C
Storage Temperature	-65°C to +125 °C
Junction Temperature	+ 175 °C
Reverse Voltage	Voltage Rating (See Table)
Forward Current	150 mA DC

Absolute Maximum Power Ratings @ 25 °C¹

1. Operation of these devices above any one of these parameters may cause permanent damage.

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Absolute Maximum Power Ratings @ 25 °C¹ (Unless Otherwise Noted)

MA4P282 / MA4P7447/MADP-007155 Series MA4P275 / MA4P7436/MADP-007436 Series MA4P278 / MA4P7438/MADP-007438Series MA4P274 / MA4P7455/MADP-007455 Series MA4P277 / MA4P7437/MADP-007457 Series MA4P290 / MADP-007167 Series MA4P789 / MA4P7433 / MADP-007433 Series MADP-007448 Series	(θ die = 15°C/W), RF & DC Incident De-rating Coefficient = - 21.3 mW / °C (θ die = 25°C/W), RF & DC Incident De-rating Coefficient = - 16.8 mW / °C (θ die = 30°C/W), RF & DC Incident De-rating Coefficient = - 13.3 mW / °C (θ die = 35°C/W), RF & DC Incident De-rating Coefficient = - 13.3 mW / °C (θ die = 45°C/W), RF & DC Incident De-rating Coefficient = - 13.3 mW / °C (θ die = 55°C/W), RF & DC Incident De-rating Coefficient = - 13.3 mW / °C (θ die = 55°C/W), RF & DC Incident De-rating Coefficient = - 13.3 mW / °C (θ die = 80°C/W), RF & DC Incident De-rating Coefficient = - 10.7 mW / °C (θ die = 80°C/W), RF & DC Incident De-rating Coefficient = - 10.7 mW / °C	+ 32 dBm + 31 dBm + 30 dBm + 30 dBm + 30 dBm + 30 dBm + 29 dBm + 32 dBm
Total (RF + DC) Power Dissipation @ 25 °C (SOT-23, SOT-143) : RF & DC Dissipated De- (SOT-323, SOD-323, SC-79) : RF & DC Dissip	-	250 mW 200 mW

Electrical Specifications @ 25°C

					Nominal Characteristics	
Standard Part Number	RoHS Compliant Part Number	Reverse Voltage ² (V)	Total Capacitance ³ Max. (pF)	R _s @ 10 mA ⁴ Max. (Ohms)	Carrier Lifetime ⁵ (μs)	I-Region Thickness (mils)
MA4P275	MA4P7436 MADP-007436 Series	75	1.00 @ 20V	0.5	0.2	0.4
MA4P789	MA4P7433 MADP-007433 Series	75	0.35 @ 20V	1.5	0.2	0.4
MA4P282	MA4P7447 MADP-007155 Series	100	1.20 @ 20V	0.6	1.0	0.8
	MADP-007448 Series	100	0.25 @ 50V	2.0	0.4	0.6
MA4P274	MA4P7455 MADP-007455 Series	100	0.35 @ 50V	3.0	1.0	2.0
MA4P277	MA4P7437 MADP-007437 Series	200	0.35 @ 50V	6.0	2.0	4.0
MA4P278	MA4P7438 MADP-007438 Series	200	0.35 @ 50V	10.0	3.0	5.0
MA4P290	MADP-007167	200	0.30 @ 50V	16.0	3.0	7.0

2. The reverse current will not exceed 10 μ A at the reverse voltage rating.

3. Total capacitance is measured at 1 MHz at the indicated voltage.

4. Series resistance is measured at the specified current and a frequency of 100 MHz.

5. Nominal minority carrier lifetime is measured at $I_F = 10$ mA, $I_R = 6$ mA, 90% recovery.

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			Pac	kaging and	d Configura	tions	i			
								Z]
		Si	ngle				Single			
	SC-79			SO	D-323			SO)T-23	
Standard Part Number	RoH Compl Part Nu	iant			RoHS Complian Part Numb	ant Stand				RoHS Compliant art Number
	MADP-00743	6-12790T	MA	4P275-1141T	MA4P7436-11	41T	MA4P27	'5-287T	MA	4P7436-287T
	MADP-00743	3-12790T	MA	4P789-1141T	MA4P7433-11	41T	MA4P78	9-287T	MA	4P7433-287T
	MADP-00715	5-12790T	MA4	4P282-1141T	MA4P7447-11	41T	MA4P28	2-287T	MA	4P7447-287T
	MADP-00744	8-12790T			MADP-007448-1	1410T			MADF	P-007448-0287AT
	MADP-00745	5-12790T	MA	4P274-1141T	MA4P7455-11	41T	MA4P27	'4-287T	MA	4P7455-287T
				4P277-1141T	MA4P7437-11		MA4P27			4P7437-287T
				4P278-1141T	MA4P7438-11		MA4P27			4P7438-287T
			MA4	4P290-1141T	MADP-007167-1	1410T	MA4P29			2-007167-0287AT
	L _s = 0.6 nH			-	1.3 nH			-	1.4 n⊦	
C	C _P = 0.10 pF			C _P =	0.11 pF			C _P =	0.12 p	F
	Common						Commor			
SO	T-23	SOT	SOT323/SC70 (3L)		SOT-23		SOT323/SC70 (3L)		SC70 (3L)	
	RoHS			RoHS			oHS			RoHS
Standard Part Number	Compliant Part Number	Standa Part Nur		Compliant Part Number	Standard Part Number		npliant Number	Standa Part Nur		Compliant Part Number
MA4P275CK- 287T	MA4P7436CK- 287T	MA4P275 1146		MA4P7436CK- 1146T	MA4P275CA- 287T		27436CA- 287T	MA4P275 1146		MA4P7436CA- 1146T
MA4P789CK- 287T	MA4P7433CK- 287T	MA4P789 1146		MA4P7433CK- 1146T	MA4P789CA- 287T		27433CA- 287T	MA4P789 1146		MA4P7433CA- 1146T
MA4P282CK- 287T	MA4P7447CK- 287T				MA4P282CA- 287T		27447CA- 287T			
	MADP-007448- 0287FT						2-007448- 87GT			MADP-007448- 1146GT
MA4P274CK- 287T	MA4P7455CK- 287T	MA4P274 1146		MA4P7455CK- 1146T	MA4P274CA- 287T	2	27455CA- 287T	MA4P274 1146		MA4P7455CA- 1146T
MA4P277CK- 287T	MADP-007437- 0287FT				MA4P277CA- 287T	4	27437CA- 287T			
MA4P278CK- 287T	MADP-007438- 0287FT				MA4P278CA- 287T	2	27438CA- 287T			
MA4P290CK- 287T	MADP-007167- 0287FT						P-007167- 87GT			
L _S = 7	1.4 nH		L _S = ′	1.3 nH	L _S =	1.4 nH			L _S = '	1.3 nH
C _P = 0).12 pF		C _P = 0).12 pF	C _P =	0.12 pF			C _P = ().12 pF

3

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	Packaging and Configurations						
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	Series	s Tee			Series Te	e Reverse	
SOT	-23	SOT323/	SC70 (3L)	SO	T-23	SOT323/	SC70 (3L)
Standard Part Number	RoHS Compliant Part Number	Standard Part Number	RoHS Compliant Part Number	Standard Part Number	RoHS Compliant Part Number	Standard Part Number	RoHS Compliant Part Number
MA4P275ST- 287T	MA4P7436ST- 287T	MA4P275ST- 1146T	MA4P7436ST- 1146T	MA4P275STR- 287T	MADP-007436- 0287DT	MA4P275STR- 1146T	MADP-007436- 1146DT
MA4P789ST- 287T	MA4P7433ST- 287T	MA4P789ST- 1146T	MA4P7433ST- 1146T	MA4P789STR- 287T	MADP-007433- 0287DT	MA4P789STR- 1146T	MADP-007433- 1146DT
MA4P282ST- 287T	MA4P7447ST- 287T			MA4P282STR- 287T	MADP-007155- 0287DT		
	MADP-007448- 0287BT		MADP-007448- 1146BT		MADP-007448- 0287DT		MADP-007448- 1146DT
MA4P274ST- 287T	MA4P7455ST- 287T	MA4P274ST- 1146T	MA4P7455ST- 1146T	MA4P274STR- 287T	MADP-007455- 0287DT	MA4P274STR- 1146T	MADP-007455- 1146DT
MA4P277ST- 287T	MADP-007437- 0287BT			MA4P277STR- 287T	MADP-007437- 0287DT		
MA4P278ST- 287T	MADP-007438- 0287BT			MA4P278STR- 287T	MADP-007438- 0287DT		
	MADP-007167- 0287BT			MA4P290STR- 287T	MADP-007167- 0287DT		
L _S = 1	.4 nH	L _S = 7	1.3 nH	L _S = 1.4 nH L _S = 1.3 nH		1.3 nH	
C _P = 0.	.12 pF	C _P = 0).12 pF	$C_{P} = 0.12 \text{ pF}$ $C_{P} = 0.12 \text{ pF}$).12 pF
					¥	¥	
		luctance		Unconnected Pair			
Standard RoHS Compliant Part Number Part Number			SOT-143 Standard RoHS Compli Part Number Part Number				
MA4P290-LI-287T MADP-007167-0287HT		MA4P275-1068T		MA4P74	436-1068T		
		MADP-007	433-0287HT	MA4P	789-1068T	MA4P74	433-1068T
						MADP-007	7448-1068ET
				MA4P2	274-1068T	MA4P74	455-1068T
	LS = (0.4 nH			LS =	1.3 nH	
	CP = 0).12 pF		CP = 0.12 pF			

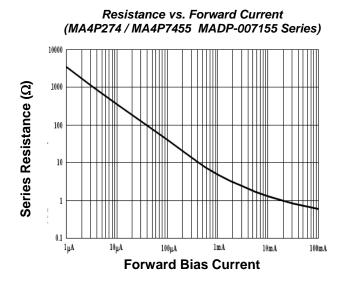
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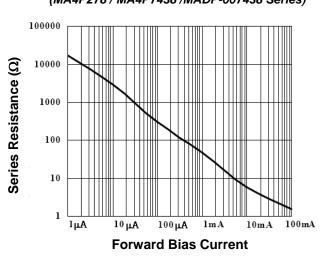


Resistance vs. Forward Current (MA4P277 / MA4P7437 /MADP-007437 Series)

Typical Forward Resistance vs. DC Bias Current @ 100 MHz

Resistance vs. Forward Current (MA4P275 / MA4P7436 /MADP-007436 Series) 10000 1000 Series Resistance (Ω) 100 10 0.1 1µA 10µA 1mA 100mA 100µA 10m A **Forward Bias Current**

> **Resistance vs. Forward Current** (MA4P278 / MA4P7438 /MADP-007438 Series)



5

10000

1000

100

10

0.1

1µA

10µA

Series Resistance (Ω)

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100µA

Forward Bias Current

1mA

100m A

10mA

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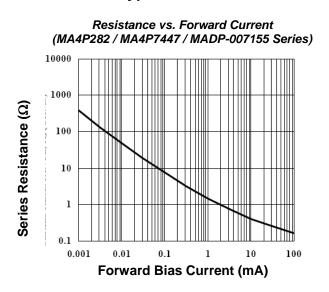


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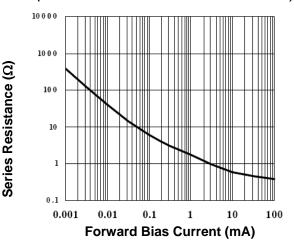
Surface Mount Plastic PIN Diodes



Typical Forward Resistance vs. DC Bias Current @ 100 MHz

100

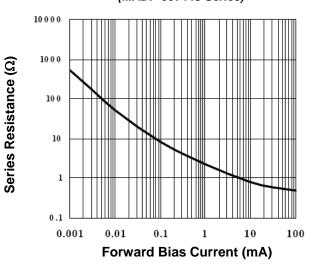
Resistance vs. Forward Current (MA4P789 / MA4P7433 / MADP-007433 Series)



(MA4P290 / MADP-007167 Series) 10,000 Series Resistance (Ω) 1000 100 10 1 0.01 0.1 10 1 Forward Bias Current (mA)

Resistance vs. Forward Current

Resistance vs. Forward Current (MADP-007448 Series)



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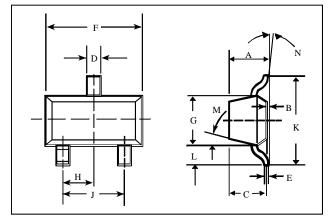


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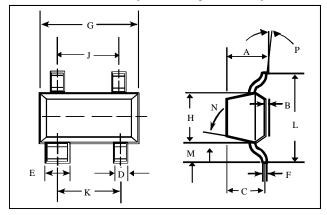
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Case Styles

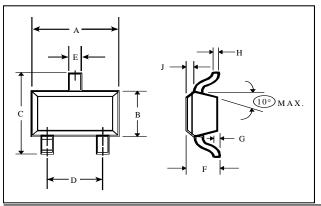
SOT-23 (Case Style 287)



SOT-143 (Case Style 1068)



SOT-323/SC70 (Case Style 1146)



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	INCHES		MILLIM	ETERS
DIM.	MIN.	MIN. MAX.		MAX.
A		0.048	_	1.22
В		0.008		0.20
С		0.040	_	1.00
D	0.013	0.020	0.35	0.50
E	0.003	0.006	0.08	0.15
F	0.110	0.119	2.80	3.00
G	0.047	0.056	1.20	1.40
Н	0.037	typical	0.95 typical	
J	0.075	typical	1.90 t	ypical
K		0.103		2.60
L		0.024		0.60
DIM.	GRADIENT			
М	10° max. ⁶			
Ν	2°	.30°		

SOT-23 (Case Style 287)

SOT-143 (Case Style 1068)

	INC	HES	MILLIM	ETERS					
DIM.	MIN.	MAX.	MIN.	MAX.					
A		0.044		1.10					
В		0.004		0.10					
С		0.040		1.00					
D	0.013	0.020	0.35	0.50					
E	0.030	0.035	0.75	0.90					
F	0.003	0.006	0.08	0.15					
G	0.110	0.119	2.80	3.00					
Н	0.047	0.056	1.20	1.40					
J	0.075	typical	1.90 t	ypical					
K	0.075	typical	1.90 t	typical					
L		0.103		2.6					
М		0.024		0.6					
DIM.	GRADIENT								
М	10° max. ⁷								
Ν	2° 30°								

7. Applicable on all sides

SOT-323/SC70 (Case Style 1146)

DIM.	INC	HES	MILLIMETERS					
DIN.	MIN.	MAX.	MIN.	MAX.				
А	0.063	0.087	1.6	2.2				
В	0.045	0.053	1.15	1.35				
С	0.079	0.087	2.0	2.2				
D	0.047	0.055	1.2	1.4				
E	0.008	0.016	0.2	0.4				
F	0.031	0.039	0.8	1.0				
G		0.004	—	0.1				
Н	0.003 typical	0.006	0.08 typical	0.15				
J	0.004 typical	0.010	0.1	0.25				

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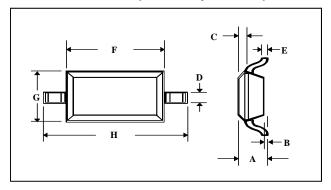


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Surface Mount Plastic PIN Diodes

Case Styles (Cont'd)

SOD-323 (Case Style 1141)

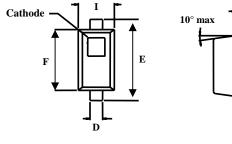


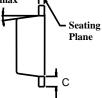
INCHES MILLIMETERS DIM. BAINT B. . . . MIN MAV

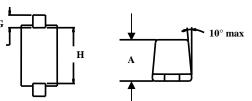
SOD-323 (Case Style 1141)

	IVIIIN.	IWAA.	IVIIIN.	IVIAA.
А	—	0.043		1.1
В	—	0.004		0.1
С	—	0.008		0.2
D	0.010	0.016	0.25	0.4
Е	0.003	0.006	0.08	0.15
F	0.063	0.075	1.6	1.9
G	0.045	0.057	1.15	1.45
Н	0.091 typical	0.106	2.3	2.7

SC-79 (Case Style 1279)







SC-79 (Case Style 1279)

DIM.	INCH	IES	MILLIMETERS		
Dim.	MIN.	MAX.	MIN.	MAX.	
А	0.020	0.028	0.51	0.71	
В	0.003	0.008	0.08	0.20	
С	0.006	0.010	0.15	0.25	
D	0.010	0.014	0.25	0.36	
E	0.059	0.067	1.50	1.70	
F	0.043	0.051	1.09	1.30	
G	0.011	0.012	0.28	0.30	
Н	0.037 typical	0.043	0.94	1.09	
Ι	0.027	0.035	0.69	0.89	

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Surface Mount Plastic PIN Diodes

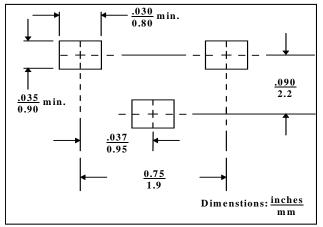
Mounting Information

The illustration indicates the recommended mounting pad configuration for the SOT-23. SOT-323 , SOD-323, SOT-143, and SC-79 packages. Solder paste containing flux should be screened onto the pads to a thickness of 0.005-0.007 inches. The plastic package is placed in position, firmly adhering to the solder paste.

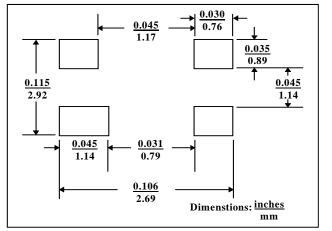
Permanent attachment is performed by a reflow soldering procedure during which the tab temperature does not exceed +275 °C and the body temperature does not exceed +250 °C, for standard models and +260 °C for the RoHS compliant devices.

Please refer to Application Note M538 for surface mounting instructions.

SOT-23



SOT-143



⁹

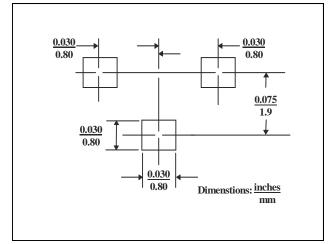
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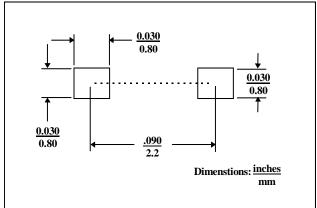


Rev. V19

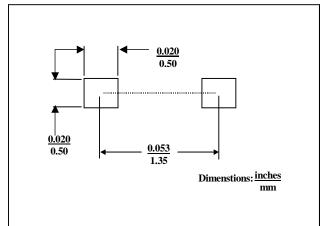
SOT-323



SOD-323/SC70







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