

查询SAC10供应商

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Microsemi Corp.
The diode experts

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**SAC5.0 thru
SAC50**

Features

- 500 WATTS PEAK PULSE POWER
- LOW CAPACITANCE
- SMALL SIZE (DO-41)
- ECONOMICAL SERIES

Maximum Ratings

Peak Pulse Power Dissipation at 25°C: 500 Watts
Steady State Power Dissipation at $T_L = +75^\circ\text{C}$: 2.5 Watts (Lead Length=3/8")
Clamping Speed (0 volts to $V_{(BR)}$ Min.) less than 5 nanoseconds
Operating and Storage Temperature: -65°C to $+175^\circ\text{C}$

Application

The SAC series TAZ is a low capacitance transient voltage suppressor rated at 500 Watts, providing board level protection for data or signal lines. The low capacitance rating of 50 pF minimizes the amount of signal loss or deformation up through 70 MHz.

Electrical Characteristics at 25°C

MICROSEMI PART NUMBER	REVERSE STAND-OFF VOLTAGE (V_{R0})	BREAKDOWN VOLTAGE ($V_{(BR)}$) @ IT 1.0mA	MAXIMUM REVERSE LEAKAGE	MAXIMUM CLAMPING VOLTAGE *	MAXIMUM PEAK PULSE CURRENT * RATING	CAPACITANCE	WORKING INVERSE BLOCKING VOLTAGE	INVERSE BLOCKING LEAKAGE CURRENT	PEAK INVERSE BLOCKING VOLTAGE
	V_{WM} Volts	$V_{(BR)}$ Volts Min.	I_{R0} μA	V_c Volts	I_{pp} Amperes	@ 0 Volts pF	V_{WIB} Volts	I_{LWB} mA	V_{PIB} Volts
SAC5.0	5.0	7.60	300	10.0	44	50	75	1	100
SAC6.0	6.0	7.90	300	11.2	41	50	75	1	100
SAC7.0	7.0	8.33	300	12.6	38	50	75	1	100
SAC8.0	8.0	8.89	100	13.4	36	50	75	1	100
SAC8.5	8.5	9.44	50	14.0	34	50	75	1	100
SAC10	10	11.10	5.0	16.3	29	50	75	1	100
SAC12	12	13.30	5.0	19.0	25	50	75	1	100
SAC15	15	16.70	5.0	23.6	20	50	75	1	100
SAC18	18	20.00	5.0	28.8	15	50	75	1	100
SAC22	22	24.40	5.0	35.4	14	50	75	1	100
SAC26	26	28.90	5.0	42.3	11.1	50	75	1	100
SAC36	36	40.00	5.0	60.0	8.6	50	75	1	100
SAC45	45	50.00	5.0	77.0	6.8	50	150	1	200
SAC50	50	55.50	5.0	88.0	5.8	50	150	1	200

* See Figure 4.

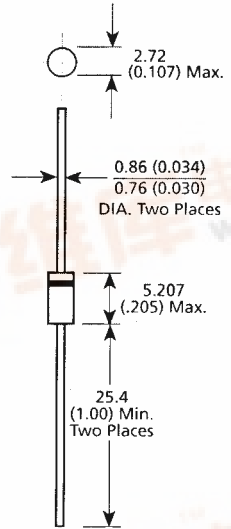
Clamping Factor: 1.4 @ full rated power, 1.20 @ 50% rated power. The ratio of the actual clamping voltage (V_c) to the actual breakdown voltage ($V_{(BR)}$).

Note 1: A transient voltage suppressor is normally selected according voltage (V_{WM}), which should be equal to or greater than the dc or continuous peak operating voltage level.

Note 2: When pulse testing, test in TVS avalanche direction. Do not pulse in "forward" direction.

Note 3: For bidirectional devices, consult factory.

LOW CAPACITANCE
TRANSIENT
ABSORPTION ZENER



NOTE: Cathode indicated by band.
All dimensions in millimeters (inches).

Mechanical Characteristics

CASE: Void Free Transfer
Molded Thermosetting
Plastic. (DO-41)

FINISH: All External Surfaces
Are Corrosion Resistant And
Leads Solderable.

POLARITY: Cathode Marked
With Band.

WEIGHT: 0.5 Grams (Appx.).

MOUNTING POSITION:



SAC5.0 thru SAC50

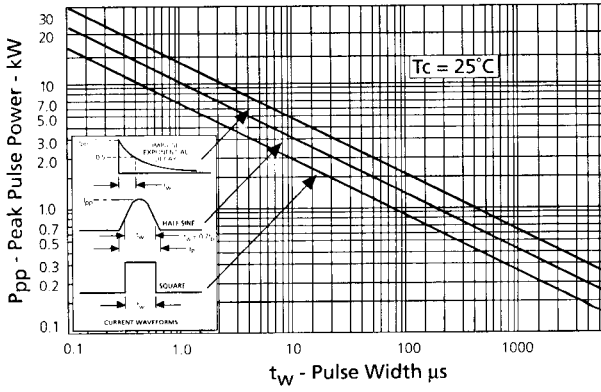


FIGURE 2

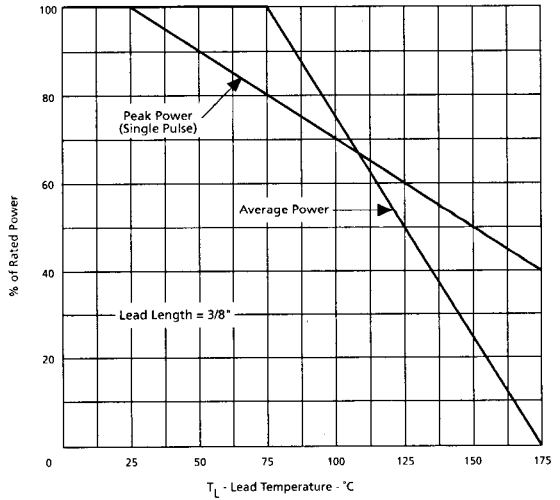


FIGURE 3

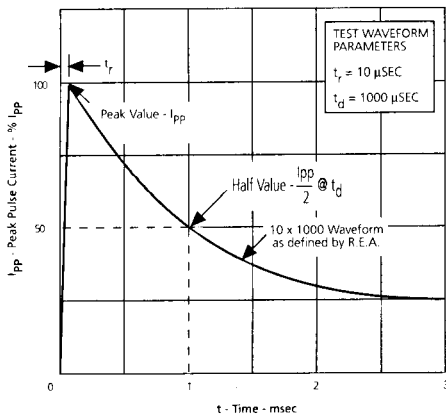


FIGURE 4
Pulse Waveform

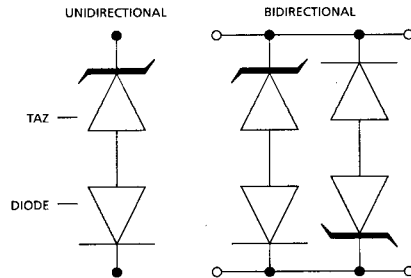


FIGURE 5