

**Micro Commercial Components** 



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### Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Glass Passivated Junction
- Excellent Clamping Capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- UL Recognized File # E331408
- Halogen free available upon request by adding suffix "-HF"

## **Mechanical Data**

• Weight : 0.4g

# **Maximum Ratings**

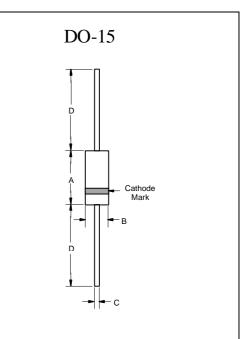
	Symbol	Value	Units
Peak Pulse Power Dissipation	P <sub>PPM</sub>	500(min)	Watts
with a 10/1000 µ s			
Waveform(Note 1)			
Steady State Power Dissipation			
@ $T_L=75^{\circ}C$ with lead lengths or	P <sub>M(AV)</sub>	3	Watts
0.375"(9.5mm)			
Peak Pulse Power Surge		See	
Current with a 10/1000 $\mu$ s	I <sub>PPM</sub>	Table1	Amps
Waveform(Note 2. FIG.3)		TableT	
Junction Temperature	ΤJ	-55 to 175	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to 175	°C

NOTE: 1) High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

2) Non-repetitive current pulse, per Fig.3 and derated above TA=25 $^{\circ}$ C, per Fig.2

# SAC5.0 THRU SAC50

# 500W Low Capacitance Transient Voltage Suppressor



	INC	INCHES MM			
DIM	MIN	MAX	MIN	MAX	NOTE
А	0.230	0.300	5.80	7.60	
В	0.104	0.140	2.60	3.60	
С	0.026	0.034	0.71	0.86	
D	1.000		25.40		

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SAC5.0 THRU SAC50



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### **ELECTRICAL CHARACTERISTICS @25°C**

MCC PART NUMBER	STAND-OFF VOLTAGE (NOTE 1) V <sub>WM</sub>	MINIMUM BREAKDOWN VOLTAGE AT I <sub>T</sub> =1.0Ma V <sub>(BR)</sub>	MAXIMUM REVERSE LEAKAGE AT V <sub>WM</sub> IR	MAXIMUM CLAMPING VOLTAGE AT I <sub>PP</sub> =5.0A V <sub>C</sub>	MAXIMUM PEAK PULSE CURRENT PER FIG.3 IPP	MAXIMUM JUNCTION CAPACITAN CE AT 0 VOLTS	WORKING INVERSE BLOCKING VOLTAGE V <sub>WIB</sub>	PEAK INVERSE BLOCKING VOLTAGE V <sub>PIB</sub>
	V	V	μA	V	Amps	pF	V	V
SAC5.0	5.0	7.60	300	10.0	44.0	50	75	100
SAC6.0	6.0	7.90	300	11.2	41.0	50	75	100
SAC7.0	7.0	8.33	300	12.6	38.0	50	75	100
SAC8.0	8.0	8.89	100	13.4	36.0	50	75	100
SAC8.5	8.5	9.44	50	14.0	34.0	50	75	100
SAC10	10.0	11.10	5	16.3	29.0	50	75	100
SAC12	12.0	13.30	5	19.0	25.0	50	75	100
SAC15	15.0	16.70	5	23.6	20.0	50	75	100
SAC18	18.0	20.00	5	28.8	15.0	50	75	100
SAC22	22.0	24.40	5	35.4	14.0	50	75	100
SAC26	26.0	28.90	5	42.3	11.1	50	75	100
SAC30	30.0	33.30	5	48.6	10.0	50	75	100
SAC36	36.0	40.00	5	60.0	8.6	50	75	100
SAC45	45.0	50.00	5	77.0	6.8	50	150	200
SAC50	50.0	55.50	5	88.0	5.8	50	150	200

NOTE:

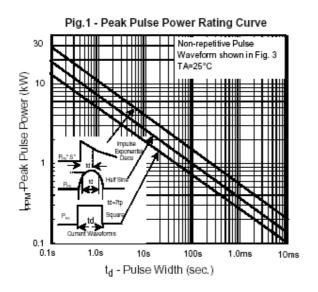
1) Non-repetitive current pulse, per Fig.3 and derated above TA=25 $^\circ\!{\rm C}$  , per Fig.2

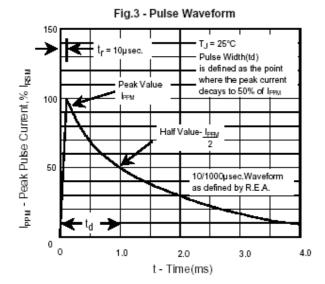
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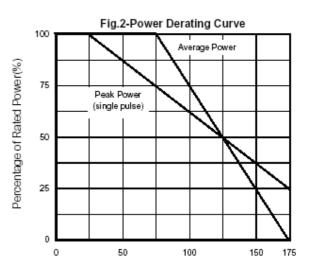
# SAC5.0 THRU SAC50

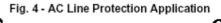


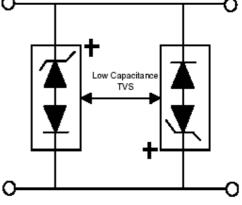
Ratings and Characteristic Curves(TA=25°C unless otherwise noted)











Application Note: Device must be used with two units in parallel,opposite in polarity as shown in circuit for AC signal line protection.

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### **Ordering Information :**

Device	Packing		
Part Number-TP	Tape&Reel: 4Kpcs/Reel		
Part Number-AP	Ammo Packing: 3Kpcs/Ammo Box		
Part Number-BP	Bulk: 25Kpcs/Carton		

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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