

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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SAC5.0 THRU SAC₅₀

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

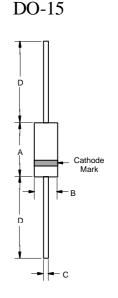
Maximum Ratings

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

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

2) Non-repetitive current pulse, per Fig.3 and derated above TA=25°C, per Fig.2

500W Low Capacitance Transient Voltage Suppressor



DIMENSIONS					
DIM	INC	HES	ММ		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	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		

SAC5.0 THRU SAC50



ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER	STAND-OFF VOLTAGE (NOTE 1) V _{WM}	MINIMUM BREAKDOWN VOLTAGE AT I _T =1.0Ma V _(BR)	MAXIMUM REVERSE LEAKAGE AT V _{WM} IR	MAXIMUM CLAMPING VOLTAGE AT I _{PP} =5.0A V _C	MAXIMUM PEAK PULSE CURRENT PER FIG.3	MAXIMUM JUNCTION CAPACITAN CE AT 0 VOLTS	WORKING INVERSE BLOCKING VOLTAGE V _{WIB}	PEAK INVERSE BLOCKING VOLTAGE V _{PIB}
NOMBER	V	V (BR)	μA	V	IPP Amps	pF	VWIB	V PIB
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

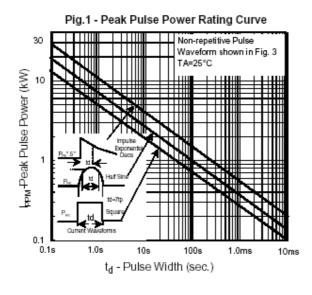
NOTE:

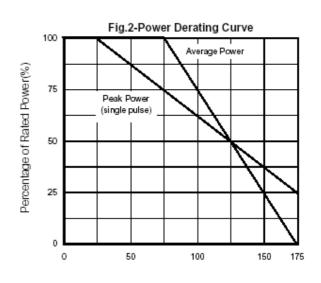
¹⁾ Non-repetitive current pulse, per Fig.3 and derated above TA=25 $^{\circ}$ C, per Fig.2

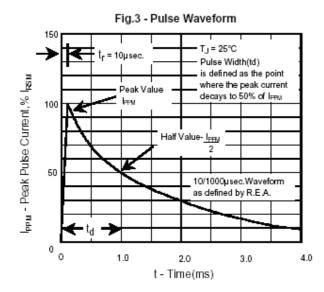
SAC5.0 THRU SAC50

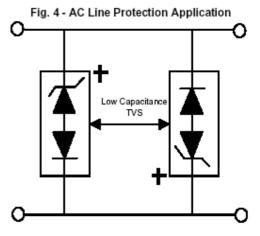


Ratings and Characteristic Curves(T_A=25℃ unless otherwise noted)









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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