

SAC5.0 THRU SAC50

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

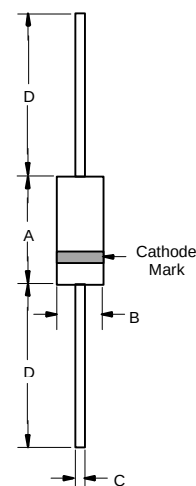
Maximum Ratings

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

NOTE: 1) High Temperature Solder Exemptions Applied, see EU Directive Annex 7.
2) Non-repetitive current pulse, per Fig.3 and derated above $T_A=25^\circ\text{C}$, per Fig.2

500W Low Capacitance Transient Voltage Suppressor

DO-15



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.230	0.300	5.80	7.60	
B	0.104	0.140	2.60	3.60	
C	0.026	0.034	0.71	0.86	
D	1.000	----	25.40	----	

ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER	STAND-OFF VOLTAGE (NOTE 1) V_{WM} V	MINIMUM BREAKDOWN VOLTAGE AT $I_T=1.0\text{Ma}$ $V_{(BR)}$ V	MAXIMUM REVERSE LEAKAGE AT V_{WM} IR μA	MAXIMUM CLAMPING VOLTAGE AT $I_{PP}=5.0\text{A}$ V_C V	MAXIMUM PEAK PULSE CURRENT PER FIG.3 I_{PP} Amps	MAXIMUM JUNCTION CAPACITAN CE AT 0 VOLTS pF	WORKING INVERSE BLOCKING VOLTAGE V_{WIB} V	PEAK INVERSE BLOCKING VOLTAGE V_{PIB} 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
 $T_A=25^\circ\text{C}$, per Fig.2

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Fig.1 - Peak Pulse Power Rating Curve

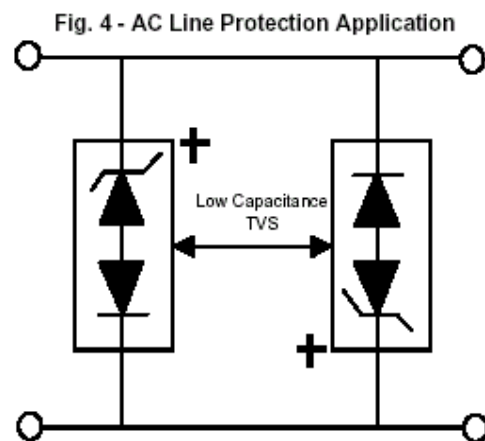
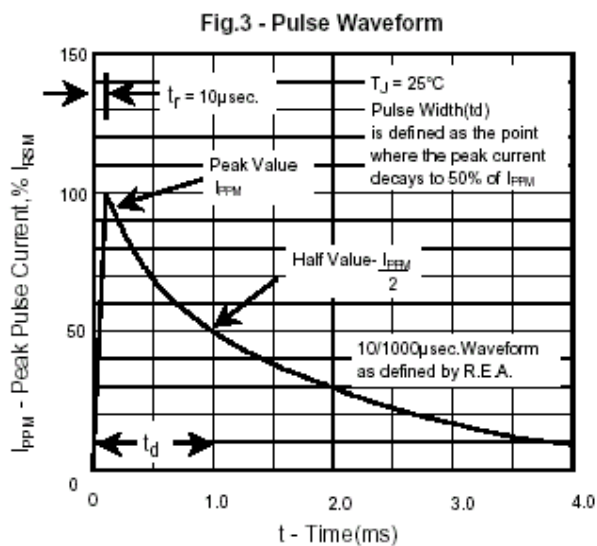
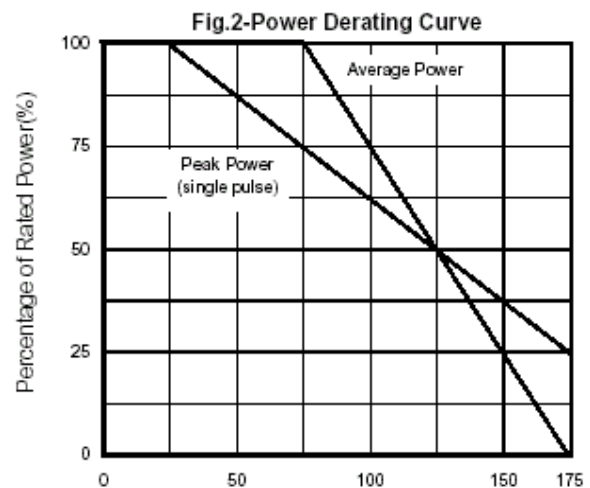
Non-repetitive Pulse Waveform shown in Fig. 3
 $T_A = 25^\circ\text{C}$

Y-axis: P_{PM} Peak Pulse Power (kW)

X-axis: t_d - Pulse Width (sec.)

Current Waveforms:

- Impulse Exponential Decay: $P_m = 5^\circ$, t_d , P_{avg}
- Half Sine: t_d , P_{avg}
- Square: $t_d = t_p$, P_{avg}



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

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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