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SMBSAC5.0 THRU SMBSAC50

Features

- For surface mount applications in order to optimize board space
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Excellent clamping capability
- Fast response time: typical less than 1.0ps from 0 volts to $V_{\text{\tiny BR}}$ minimum
- Halogen free available upon request by adding suffix "-HF"
- Ideal for data line applications
- UL Recognized File# E331408

Mechanical Data

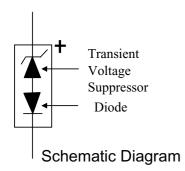
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Terminals: solderable per MIL-STD-750, Method 2026
- The band denotes TVS cathode
- Maximum soldering temperature: 260°C for 10 seconds

Maximum Ratings @ 25°C Unless Otherwise Specified

Peak Pulse Current on 10/1000us waveform	I _{PP}	See Table 1	Note: 2
Peak Pulse Power Dissipation	P _{PP}	500W	Note: 2, 3
Steady State Power Dissipation Γ _L = 75°C With at lead lengths 0.375"(9.5mm)	P _D	3	Watt
Operation and Storage Temperature Range	T_J, T_{STG}	-55°C to +175°C	

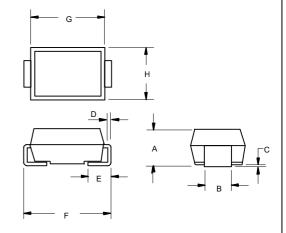
NOTES:

- 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°C per Fig.2.
- 3. Mounted on 5.0mm² copper pads to each terminal.

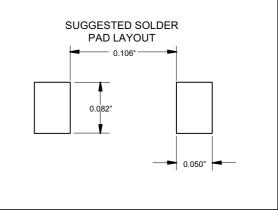


Low Capacitance Transient Voltage Suppressors 5 to 50 Volts 500Watt

DO-214AA (SMB) (LEAD FRAME)



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.083	.096	2.13	2.44		
В	.075	.086	1.91	2.20		
С	.002	.008	0.051	0.203		
D	.006-	.012	0.152	0.305		
ш	.030	.060	0.76	1.52		
F	.200	.220	5.08	5.59		
G	.160	.185	4.06	4.70		
Н	.130	.155	3.30	3.94		





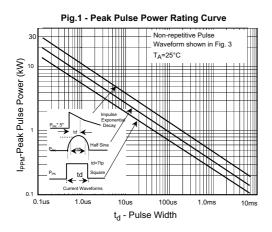
SMBSAC 5.0THRU SMBSAC 50

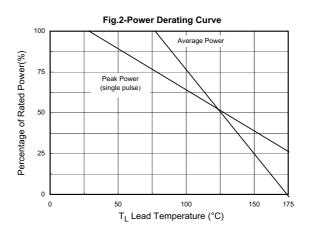
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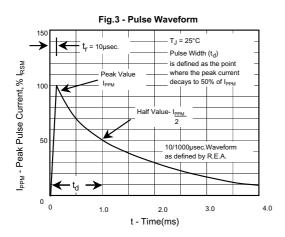
MCC PART NUMBERS	Marking Code	$\begin{array}{c} \text{STAND-} \\ \text{OFF} \\ \text{VOLTAGE} \\ \text{V}_{\text{WM}} \\ \text{(VOLTS)} \end{array}$	$\begin{array}{c} \text{MINIMUM} \\ \text{BREAKDOWN} \\ \text{VOLTAGE} \\ \text{AT I}_{\text{T}} = 1.0 \text{mA} \\ \text{V(BR)} \end{array}$	$\begin{array}{c} \text{MAXIMUM} \\ \text{REVERSE} \\ \text{LEAKAGE} \\ \text{AT V}_{\text{WM}} \\ \text{I}_{\text{R}}(\text{uA}) \end{array}$	$\begin{array}{c} \text{MAXIMUM} \\ \text{CLAMPING} \\ \text{VOLTAGE} \\ \text{AT Ipp=5.0A} \\ \text{V}_{\text{C}}\left(\text{V}\right) \end{array}$	MAXIMUM PEAK PULSE CURRENT PER FIG.3 Ipp (AMPS)	MAXIMUM JUNCTION CAPACITANCE AT 0 VOLTS (pF)	$\begin{array}{c} \text{WORKING} \\ \text{INVERSE} \\ \text{BLOCKING} \\ \text{VOLTAGE} \\ \\ V_{\text{WIB}} \end{array}$	INVERSE BLOCKING LEAKAGE CURRENT V _{WIB}	$\begin{array}{c} \text{PEAK} \\ \text{INVERSE} \\ \text{BLOCKING} \\ \text{VOLTAGE} \\ \\ \text{V}_{\text{PIB}} \end{array}$
			(VOLTS)					(VOLTS)	IIB(mA)	(VOLTS)
SMBSAC5.0	SKE	5.0	7.6	300	10.0	44.0	45	75	1.0	100
SMBSAC6.0	SKG	6.0	7.9	300	11.2	41.0	45	75	1.0	100
SMBSAC7.0	0,	7.0	8.3	300	12.6	38.0	45	75	1.0	100
SMBSAC8.0	SKR	8.0	8.9	100	13.4	36.0	45	75	1.0	100
SMBSAC8.5	SKT	8.5	9.44	50	14.0	34.0	45	75	1.0	100
SMBSAC10	SKX	10.0	11.10	5	16.3	29.0	45	75	1.0	100
SMBSAC12	SLE	12.0	13.30	5	19.0	25.0	45	75	1.0	100
SMBSAC15	SLM	15.0	16.70	5	23.6	20.0	45	75	1.0	100
SMBSAC18	SLT	18.0	20.00	5	28.8	15.0	45	75	1.0	100
SMBSAC22	SLX	22.0	24.40	5	35.4	14.0	45	75	1.0	100
SMBSAC26	SME	26.0	28.90	5	42.3	11.1	45	75	1.0	100
SMBSAC30	SMK	30.0	33.30	5	48.6	10.0	45	75	1.0	100
SMBSAC36	SMP	36.0	40.00	5	60.0	8.6	45	75	1.0	100
SMBSAC45	SMV	45.0	50.00	5	77.0	6.8	45	150	1.0	200
SMBSAC50	SMZ	50.0	55.50	5	88.0	5.8	45	150	1.0	200

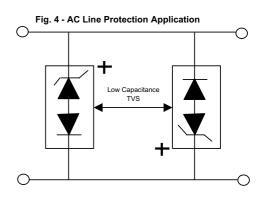


Electrical Ratings and Characteristic Curves (Ta=25 °C unless otherwise specified)









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: 3Kpcs/Reel			

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

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