

**Micro Commercial Components** 



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## **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<sub>BR</sub> minimum

- Ideal for data line applications
- UL Recognized File# E331408

## **Mechanical Data**

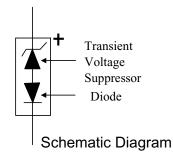
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Terminals: solderable per MIL-STD-750, Method 2026
- The band denotes TVS cathode
- Maximum soldering temperature: 260°C for 10 seconds

### Maximum Ratings @ 25°C Unless Otherwise Specified

Peak Pulse Current on 10/1000us waveform	I <sub>PP</sub>	See Table 1	Note: 2
Peak Pulse Power Dissipation	P <sub>PP</sub>	500W	Note: 2, 3
Steady State Power Dissipation Γι= 75°C With at lead lengths 0.375''(9.5mm)	Рр	3	Watt
Operation and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55°C to +175°C	

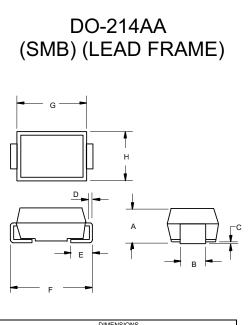
#### NOTES:

- 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 5.0mm<sup>2</sup> copper pads to each terminal.

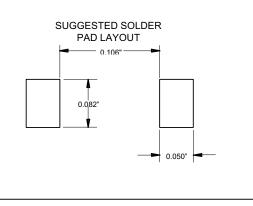


# SMBSAC5.0 THRU SMBSAC50

Low Capacitance Transient Voltage Suppressors 5 to 50 Volts 500Watt



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		
E	.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		



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#### **Micro Commercial Components**

# SMBSAC 5.0THRU SMBSAC 50

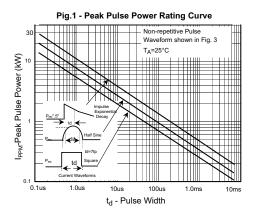
MCC PART NUMBERS	Marking Code	STAND- OFF VOLTAGE V <sub>WM</sub> (VOLTS)	MINIMUM BREAKDOWN VOLTAGE AT I <sub>T</sub> =1.0mA V(BR) (VOLTS)	$\begin{array}{l} \text{MAXIMUM} \\ \text{REVERSE} \\ \text{LEAKAGE} \\ \text{AT V}_{\text{WM}} \\ \text{I}_{\text{R}}(\text{uA}) \end{array}$	MAXIMUM CLAMPING VOLTAGE AT Ipp=5.0A V <sub>C</sub> (V)	MAXIMUM PEAK PULSE CURRENT PER FIG.3 Ipp (AMPS)	MAXIMUM JUNCTION CAPACITANCE AT 0 VOLTS (pF)	WORKING INVERSE BLOCKING VOLTAGE V <sub>WIB</sub> (VOLTS)	$\begin{array}{c} \text{INVERSE} \\ \text{BLOCKING} \\ \text{LEAKAGE} \\ \text{CURRENT} \\ \\ V_{\text{WIB}} \\ \text{IIB}(\text{mA}) \end{array}$	PEAK INVERSE BLOCKING VOLTAGE V <sub>PIB</sub> (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	SKM	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

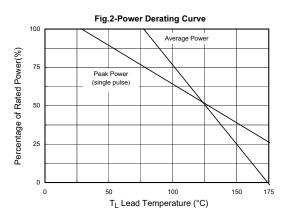
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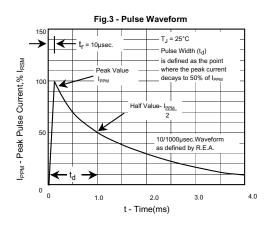
**Revision:** A



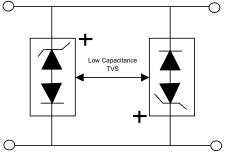
## Electrical Ratings and Characteristic Curves (Ta=25 °C unless otherwise specified)











**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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### **Revision:** A

Downloaded from Elcodis.com electronic components distributor



## **Ordering Information :**

Device	Packing		
Part Number-TP	Tape&Reel: 3Kpcs/Reel		

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