

## Low Capacitance

Stand-Off Voltage: 5.0 to 50 V

Peak Pulse Power: 500 W

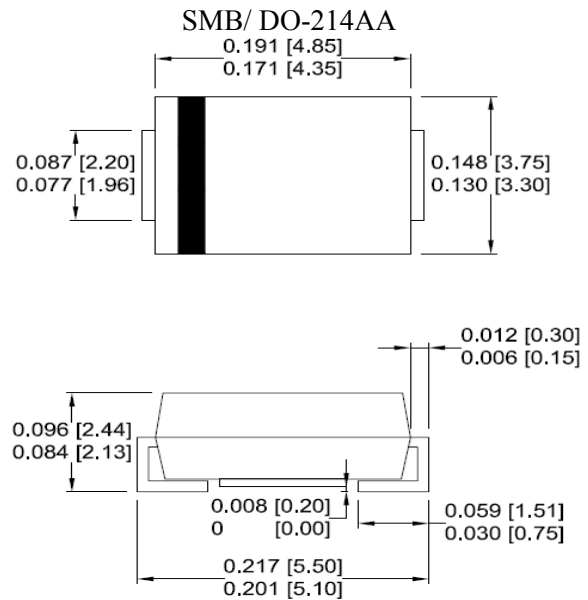
### Features

- Glass passivated chip
- 500 W peak pulse power capability with a 10/1000  $\mu$ s waveform, repetitive rate (duty
- Low leakage
- Excellent clamping capability
- Very fast response time
- RoHS compliant

### Mechanical Data

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-750, method 2026 guranteed
- Polarity: Color band denotes TVS cathode end
- Mounting position: Any

## Surface Mount Transient Voltage Suppressors



Dimensions: inch[mm]

### Maximum Ratings( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak power dissipation with a 10/1000 $\mu$ s waveform <sup>(1)</sup>	$P_{PP}$	500	W
Power dissipation on infinite heatsink at $T_L = 75^{\circ}\text{C}$ (Fig.2)	$P_D$	3.0	W
Peak pulse current with a 10/1000 $\mu$ s waveform(Fig.2) <sup>(1)</sup>	$I_{PP}$	See Next Table	A
Operating junction and storage temperature range	$T_J, T_{STG}$	- 55 to +150	$^{\circ}\text{C}$

**Note:**

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



Ratings and Characteristics Curves ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

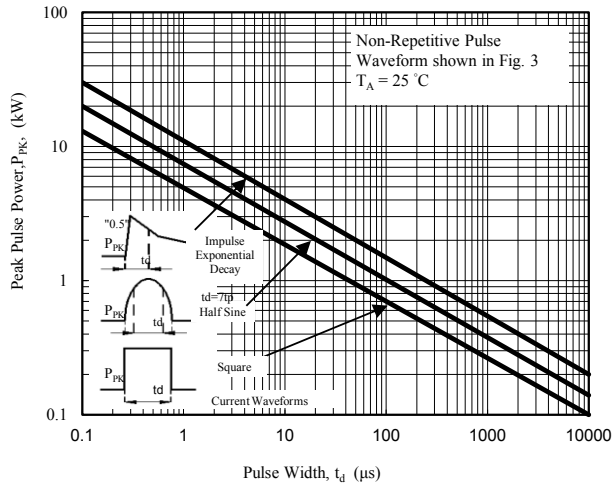


Fig. 1 - Peak Pulse Power Rating Curve

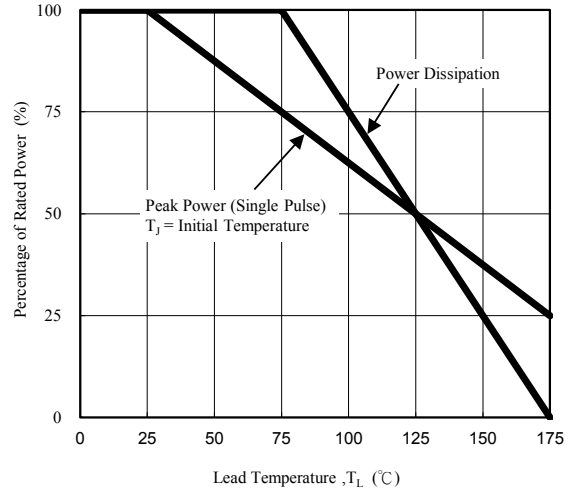


Fig. 2 - Power Derating Curve Surge Current

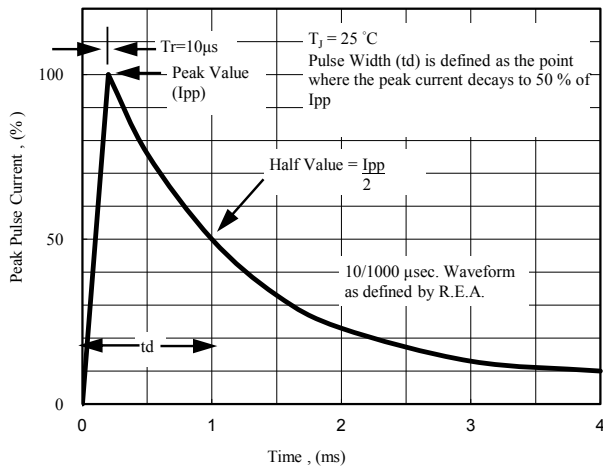
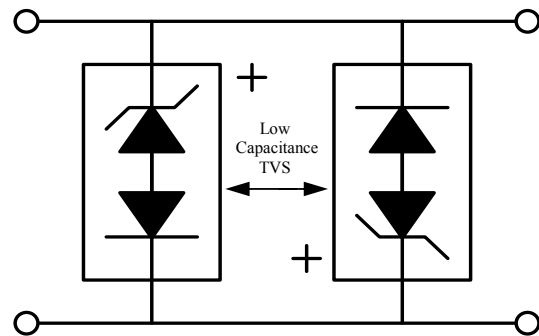


Fig. 3 - Pulse Waveform



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

Fig. 4 - AC Line Protection Application



Electrical Characteristics( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

Part Number	Device Marking Code	Stand-Off Voltage $V_{WM}$ (V)	Minimum Breakdown Voltage $V_{BR}@ I_T=1.0\text{mA}$ (V)	Maximum Reverse Leakage $I_R @V_{WM}$ ( $\mu\text{A}$ )	Maximum Clamping Voltage $V_C @I_{PP}$ (V)	Maximum Reverse Surge Current $I_{PP}$ (A)	Maximum Junction Capacitance @0 V (pF)	Working Inverse Blocking Voltage $V_{WIB}$ (V)	Inverse Blocking Leakage Current $I_{IB} @V_{WIB}$ (mA)	Peak Inverse Voltage $V_{PIB}$ (V)
SACB5.0	SAD	5.0	7.60	300	10.0	44.00	45	75	1	100
SACB6.0	SAE	6.0	7.90	300	11.2	41.00	45	75	1	100
SACB7.0	SAF	7.0	8.33	300	12.6	38.00	45	75	1	100
SACB8.0	SAG	8.0	8.89	100	13.4	36.00	45	75	1	100
SACB8.5	SAH	8.5	9.44	50	14.0	34.00	45	75	1	100
SACB10	SAK	10.0	11.10	5	16.3	29.00	45	75	1	100
SACB12	SAL	12.0	13.30	5	19.0	25.00	45	75	1	100
SACB15	SAM	15.0	16.70	5	23.6	20.00	45	75	1	100
SACB18	SAN	18.0	20.00	5	28.8	15.00	45	75	1	100
SACB22	SAP	22.0	24.40	5	35.4	14.00	45	75	1	100
SACB26	SAQ	26.0	28.90	5	42.3	11.10	45	75	1	100
SACB30	SAR	30.0	33.30	5	48.6	10.00	45	75	1	100
SACB36	SAS	36.0	40.00	5	60.0	8.60	45	75	1	100
SACB45	SAT	45.0	50.00	5	77.0	6.80	45	150	1	200
SACB50	SAU	50.0	55.50	5	88.0	5.80	45	150	1	200

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