

SACB SERIES

LOW CAPACITANCE TRANSIENT VOLTAGE SUPPRESSOR

STAND-OFF VOLTAGE- 5.0 - 50 Volts

500 watt Peak Pulse Power

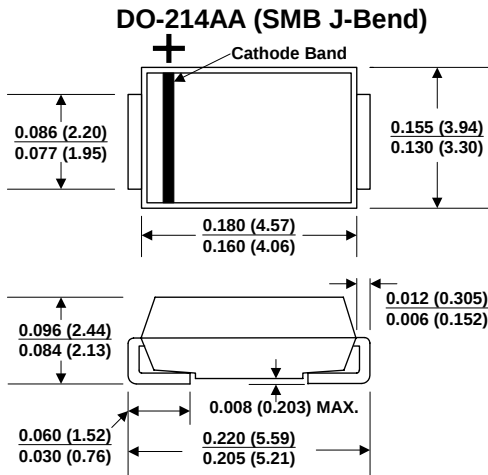
SACB PART NUMBER	Marking Code	STAND- OFF VOLTAGE (NOTE1) V_{WM} (VOLTS)	MINIMUM BREAKDOWN VOLTAGE AT $I_T=1.0mA$ $V(BR)$ (VOLTS)	MAXIMUM REVERSE LEAKAGE AT V_{WM} $I_R(\mu A)$	MAXIMUM CLAMPING VOLTAGE AT $I_{pp}=5.0A$ V_C (V)	MAXIMUM PEAK PULSE CURRENT PER FIG.3 I_{pp} (AMPS)	MAXIMUM JUNCTION CAPACITANCE AT 0 VOLTS (pF)	WORKING INVERSE BLOCKING VOLTAGE V_{WIB} (VOLTS)	INVERSE BLOCKING LEAKAGE CURRENT V_{WIB} $I_{IB}(mA)$	PEAK INVERSE BLOCKING VOLTAGE V_{PIB} (VOLTS)
SACB5.0	SKE	5.0	7.6	300	10.0	44.0	45	75	1.0	100
SACB6.0	SKG	6.0	7.9	300	11.2	41.0	45	75	1.0	100
SACB7.0	SKM	7.0	8.3	300	12.6	38.0	45	75	1.0	100
SACB8.0	SKR	8.0	8.9	100	13.4	36.0	45	75	1.0	100
SACB8.5	SKT	8.5	9.44	50	14.0	34.0	45	75	1.0	100
SACB10	SKX	10.0	11.10	5	16.3	29.0	45	75	1.0	100
SACB12	SLE	12.0	13.30	5	19.0	25.0	45	75	1.0	100
SACB15	SLM	15.0	16.70	5	23.6	20.0	45	75	1.0	100
SACB18	SLT	18.0	20.00	5	28.8	15.0	45	75	1.0	100
SACB22	SLX	22.0	24.40	5	35.4	14.0	45	75	1.0	100
SACB26	SME	26.0	28.90	5	42.3	11.1	45	75	1.0	100
SACB30	SMK	30.0	33.30	5	48.6	10.0	45	75	1.0	100
SACB36	SMP	36.0	40.00	5	60.0	8.6	45	75	1.0	100
SACB45	SMV	45.0	50.00	5	77.0	6.8	45	150	1.0	200
SACB50	SMZ	50.0	55.50	5	88.0	5.8	45	150	1.0	200

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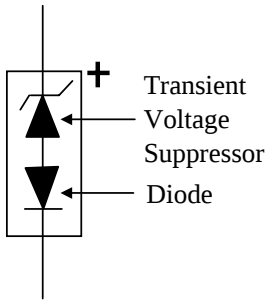
500 watt Peak Pulse Power



Dimensions in inches and (millimeters)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-C
- Glass passivated junction
- 500W Peak Pulse Power capability with a 10/1000us waveform, repetitor rate (duty cycle): 0.01%
- Excellent clamping capability
- Low incremental surge resistance
- Fast response time: typically less than 1.0ns from 0 Volts to V(BR)
- Ideal for data line applications
- High temperature soldering guaranteed: 265°C/10 seconds, 0.375"(9.5mm) lead length, 5lbs., (2.3kg) tension



Schemati

MECHANICAL DATA

Case : JEDEC DO214AA. Molded plastic over glass passivated junction

Terminal : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : The band denotes TVS cathode

Standard Packaging : 12mm tape (EIA STD RS-481)

Weight : 0.003ounce, 0.093gram

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNITS
Peak Pulse Power Dissipation With a 10/1000μs waveform (Note 1, FIG.1)	P _{PPM}	Minimum 500	Watts
Steady State Power Dissipation, T _L = 75 With at lead lengths 0.375"(9.5mm)	P _{M(AV)}	3	Watts
Peak Power Pules Surge Current With a 10/1000μs Waveform (Note 1, FIG.3)	I _{PPM}	SEE TABLE 1	Amps
Operating junction and Storage Temperature Range	T _J , T _{STG}	-55 to +175	

Note :

1. Non-repetitive current pulse, per Fig. 3 and derated above T_A = 25 per Fig. 2.

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LOW CAPACITANCE TRANSIENT VOLTAGE SUPPRESSORS

Ratings and

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

Fig.1 - Peak Pulse Power Rating Curve

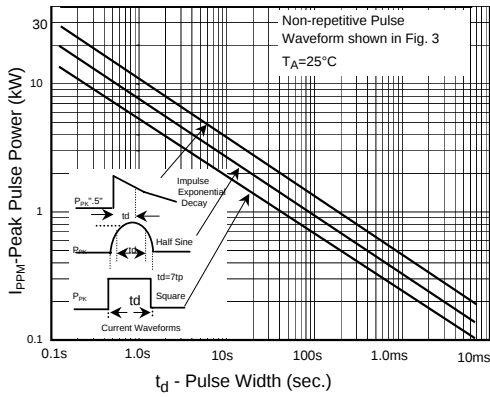


Fig.2 - Power Derating Curve

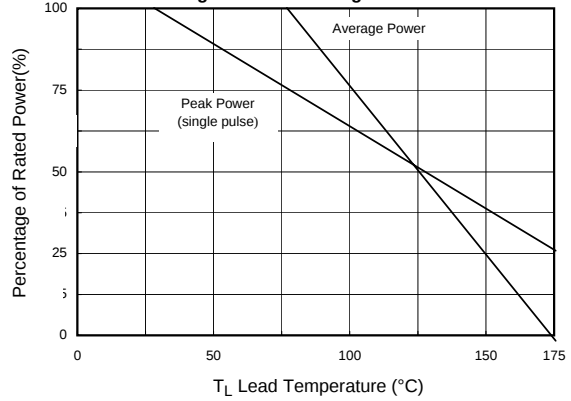


Fig.3 - Pulse Waveform

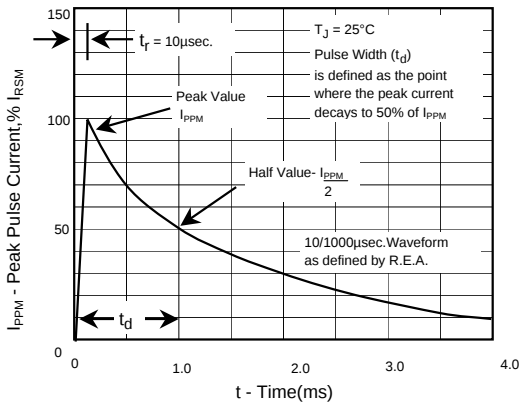
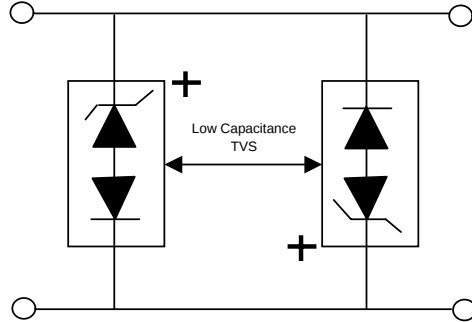


Fig. 4 - AC Line Protection Application



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