LOW CAPACITANCE TRANSIENT VOLTAGE SUPPRESSOR

STAND-OFF VOLTAGE5.0 - 50 Volts

500 watt Peak Pulse Power

"*"标注为常用型号
"*" *Stand for commonly used models*

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(uA)	MAXIMUM CLAMPING VOLTAGE AT Ipp=5.0A V_C (V)	MAXIMUM PEAK PULSE CURRENT PER FIG.3 Ipp (AMPS)	MAXIMUM JUNCTION CAPACITANCE AT 0 VOLTS (pF)	WORKING INVERSE BLOCKING VOLTAGE V_{WIB} (VOLTS)	INVERSE BLOCKING LEAKAGE CURRENT V_{WIB} IIB(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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STAND-OFF VOLTAGE5.0 - 50 Volts
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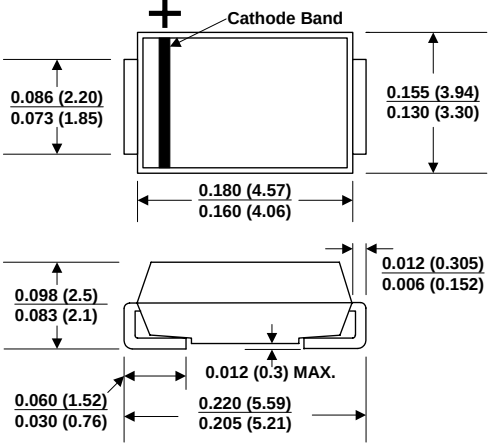
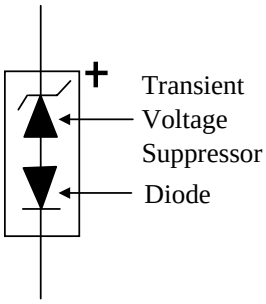
DO-214AA (SMB J-Bend)



Dimensions in inches and(millimeters)

FEATURES

- ◎ For surface mounted applications in order to optimize board space
- ◎ Glass passivated junction
- ◎ 500W Peak Pulse Power capability with a 10/1000us waveform,repetitior rate (duty cycle): 0.01%
- ◎ Excellent clamping capability
- ◎ Low incremental surge resistance
- ◎ Fast response time: typically less than 1.0ps from 0 Volts to V(BR) for unidirectional types
- ◎ Ideal for data line applications
- ◎ High temperature soldering guaranteed: 260°C/10 seconds,0.375"(9.5mm) lead length,5lbs., (2.3kg) tension



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MECHANICAL DATA

Case：JEDEC DO-214AA. 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)	Ppp_M	Minimum 500	Watts
Steady State Power Dissipation at TL= 75°C with lead lengths or 0.375" (9.5mm)	$P_{M(AV)}$	3	Watts
Peak Pulse Power Surge Current with a 10/1000 μS waveform (Note 1.FIG.3)	I_{PPM}	SEE TABLE 1	Amps
Operating junction and Storage Temperature Range	T_J , T_{STG}	-55 to +175	° C

Note：

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

LOW CAPACITANCE TRANSIENT VOLTAGE SUPPRESSORS

Ratings and Characteristic Curves (T_A=25℃ unless otherwise noted)

Pig.1 - Peak Pulse Power Rating Curve

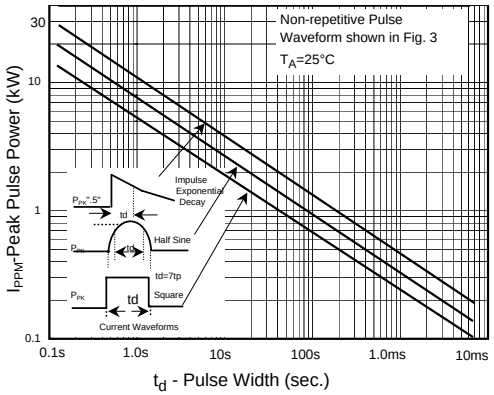


Fig.2-Power Derating Curve

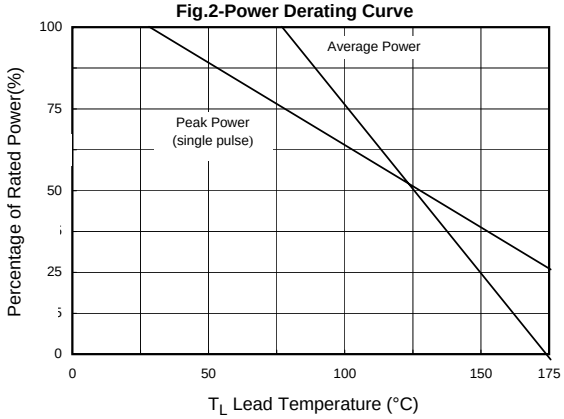


Fig.3 - Pulse Waveform

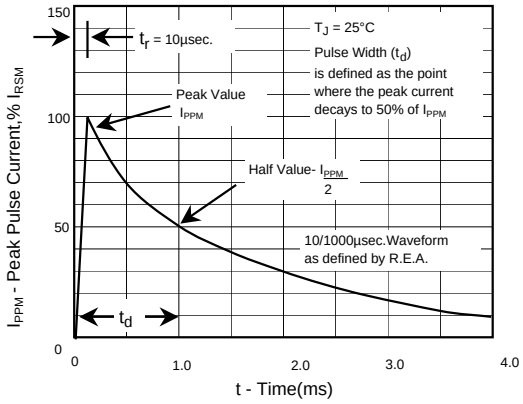
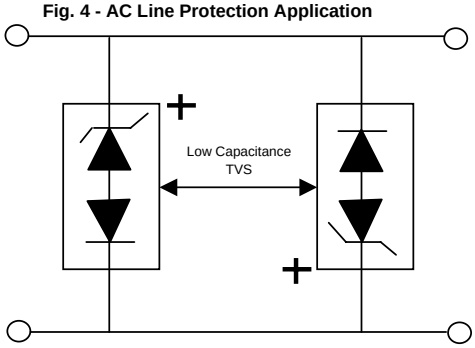


Fig. 4 - AC Line Protection Application



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