



High-reliability discrete products
and engineering services since 1977

SACB SERIES

Transient Voltage Suppressors
500 Watt

FEATURES:

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).

MAXIMUM RATINGS

Ratings	Value
Peak pulse power dissipation @ $T_A = 25^\circ\text{C}$ ⁽¹⁾	500W @ 10/1000 μs
Power dissipation on infinite heatsink @ $T_L = 50^\circ\text{C}$	3.0W
Operating and storage temperature:	-65° to $+150^\circ\text{C}$
Typical thermal resistance, junction to lead	30°C/W
Typical thermal resistance, junction to ambient	120°C/W

Note 1: Non-repetitive current pulse and derated above 25°C .

ELECTRICAL CHARACTERISTICS

Part number	Standoff voltage	Minimum breakdown voltage @ $I_T = 1.0\text{mA}$	Maximum reverse leakage @ V_R	Maximum clamping voltage @ $I_F = 5.0\text{A}$	Maximum peak pulse current	Capacitance @ 0 Volts	Working inverse blocking voltage	Inverse blocking leakage current @ V_{WIB}	Peak inverse blocking voltage
	V_R	$V_{(BR)}$	I_R	V_C	I_{PP}		V_{WIB}	I_{IB}	V_{PIB}
	Volts	Volts	μA	Volts	Amps		pF	Volts	mA
SACB5.0	5.0	7.60	300	10.0	44	45	75	1	100
SACB6.0	6.0	7.90	300	11.2	41	45	75	1	100
SACB7.0	7.0	8.33	300	12.6	38	45	75	1	100
SACB8.0	8.0	8.89	100	13.4	36	45	75	1	100
SACB8.5	8.5	9.44	50	14.0	34	45	75	1	100
SACB10	10	11.10	5	16.3	29	45	75	1	100
SACB12	12	13.30	5	19.0	25	45	75	1	100
SACB15	15	16.70	5	23.6	20	45	75	1	100
SACB18	18	20.00	5	28.8	15	45	75	1	100
SACB22	22	24.40	5	35.4	14	45	75	1	100
SACB26	26	28.90	5	42.3	11.1	45	75	1	100
SACB30	30	33.30	5	48.6	10.0	45	75	1	100
SACB36	36	40.00	5	60.0	8.6	45	75	1	100
SACB45	45	50.00	5	77.0	6.8	45	150	1	200
SACB50	50	55.50	5	88.0	5.8	45	150	1	200



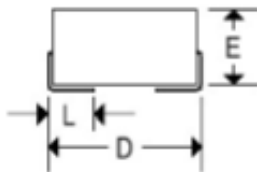
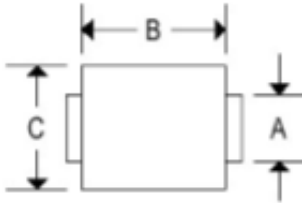
High-reliability discrete products
and engineering services since 1977

SACB SERIES

Transient Voltage Suppressors
500 Watt

MECHANICAL CHARACTERISTICS

Case	DO-214AA
Marking	Alpha-numeric
Polarity	Cathode band



	DO-214AA			
	Inches		Millimeters	
	Min	Max	Min	Max
A	0.077	0.083	1.960	2.100
B	0.160	0.187	4.060	4.750
C	0.130	0.155	3.300	3.940
D	0.205	0.220	5.210	5.590
E	0.075	0.095	1.900	2.410
L	0.030	0.060	0.760	1.520

Figure 1 - Peak Pulse Power Rating Curve

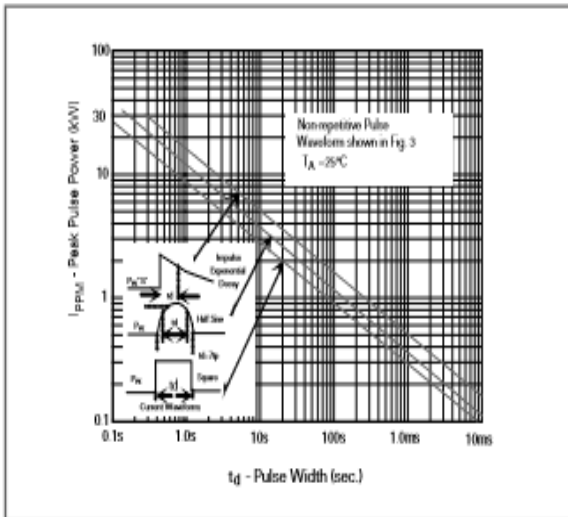


Figure 2 - Pulse Derating Curve

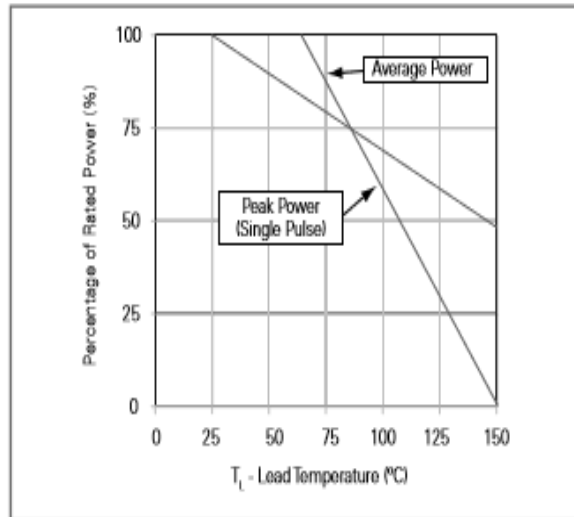


Figure 3 - Pulse Waveform

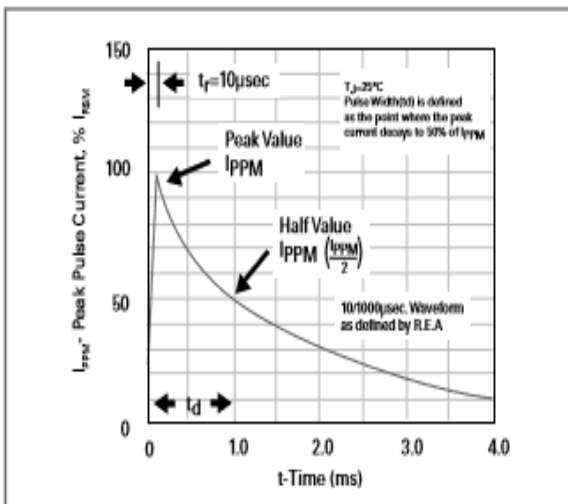


Figure 4 - AC Line Protection Application

