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SMBJSAC5.0

500 WATT LOW CAPACITANCE TRANSIENT VOLTAGE SUPPRESSOR

D0-214AA

INCHES

MAX

.083

180

155

220

095

060

MIN

077

160

130

205

.075

030

DIM

A

В

C

D

Б

F

Description

SMBJ surface mount package is utilized where power and space is a requirement. Designed for effective protection of low voltage power bus lines and data lines from voltage spikes originating from ESD, line noise (EFT), and induced lighting defined by IEC 1000-4-2, 1000-4-4, and 1000-4-5 respectively. Advanced technology provides lowest clamping voltage with surface mount packaging minimizing parasitic inductance.

Features

- 500 watts Peak Pulse Power 10/1000 μs
- For surface Mount Applications (flat handling surface for accurate placement).
- Voltage and reverse leakage lowest available
- Low capacitance
- UL 94V-0 Flammability Classification

Mechanical Characteristics

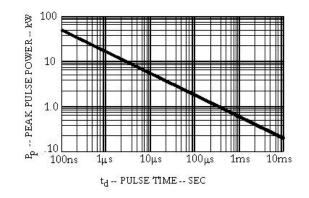
- CASE: DO-214AA (SMBJ) outline
- Terminals solderable per MIL-STD-750, Method 2026
- Maximum temperature for soldering: 260°C for 10 seconds maximum
- LEAD MATERIAL: Copper
- LEAD FINISH: Tin lead plate (S_N95/P65)
- POLARITY: Band indicates TVS cathode
- WEIGHT: 0.2 grams
- MOUNTING POSITION: Any

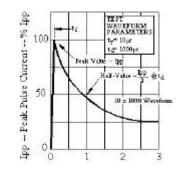
Maximum Ratings

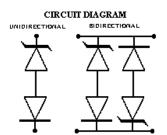
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Steady state Power Dissipation: 3.0 watt @ $T_L \le 75^{\circ}C$
- Repetition rate (duty cycle): .01%
- Surge Power: 300 watts @ 10/1000 µs or 2000 watts @ 8/20

Electrical Characteristics @ 25°C unless otherwise specified

PART NUMBER	REVERSE STAND-OFF VOLTAGE (NOTE 1) V _{WM} VOLTS	BREAKDOWN VOLTAGE @ IT-1.0 Ma V(BR) VOLTS min.	MAXIMUM REVERSE LEAKAGE @V _{WM} I _D µA	MAXIMUM CLAMPING VOLTAGE Ip=5.0A V _C VOLTS	MAXIMUM PEAK PLUSE CURRENT RATING I _{PP} Amps	CAPACITANCE @ 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
SMBJSAC5.0	5.0	7.6	300	10.0	44	50	75	1	100







MILLIMETERS

MAX

2.10

4.57

3.94

5.59

2.41

1.52

MIN

1.96

4.06

3.30

5.21

1.90

0.76

ISO 9001 CERTIFIED