

SMBJ 5.0 - 188A

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

Stand-off Voltage : 5.0 to 188V

Peak Pulse Power : 600 W

FEATURES :

- * 600W peak pulse power capability with a 10/1000 μ s waveform
- * Excellent clamping capability
- * Very fast response time
- * Pb / RoHS Free

MECHANICAL DATA

- * Case : SMB Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.108 gram

DEVICES FOR BIPOLAR APPLICATIONS

For Bi-directional use C or CA Suffix

Electrical characteristics apply in both directions

MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified.

Rating	Symbol	Value	Units
Peak Pulse Power Dissipation on 10/1000 μ s waveform ⁽¹⁾⁽²⁾ (Fig. 3)	P _{PPM}	Minimum 600	W
Peak Pulse Current on 10/1000 μ s waveform ⁽¹⁾ (Fig. 5)	I _{PPM}	See Table	A
Maximum Peak forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) ⁽²⁾	I _{FSM}	100	A
Maximum Instantaneous Forward Voltage at I _F = 50A	V _{FM}	3.5	V
Typical Thermal resistance, Junction to ambient	R _{ΘJA}	100	°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	- 55 to + 150	°C

Notes :

(1) Non-repetitive Current pulse, per Fig. 5 and derated above Ta = 25 °C per Fig. 1

(2) Mounted on 0.2 x 0.2" (5.0 x 5.0 mm) copper pads to each terminal.

