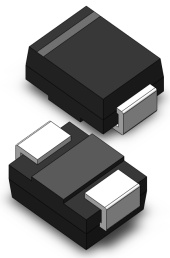
SMBJ3.3A

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSOR

VOLTAGE RANGE: 3.3V
POWER: 600Watts

Features

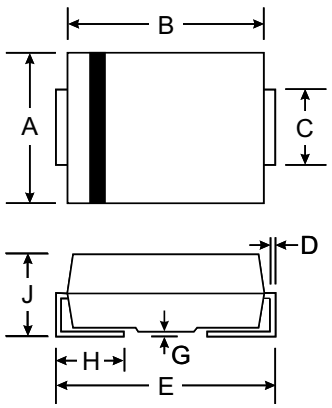
- Working peak reverse voltage range – 3.3V.
- Low profile package.
- Excellent clamping capability.
- Fast response time: typically less than 1 ns for Uni-direction. from 0 Volts to BV min
- Plastic material has UL flammability classification 94V-O
- RoHS compliant in lead-free versions



Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)

RoHS COMPLIANT



SMB(DO-214AA)		
Dim	**Min**	**Max**
A	3.30	3.94
B	4.06	4.70
C	1.91	2.21
D	0.15	0.31
E	5.00	5.59
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		

Parameter	Symbol	Value	Units
Peak Pulse Current of on 10/1000us Waveform (Note 1, FIG.3)	I_{PPM}	See Table 1	Amps
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load, (JEDEC Method) (Note 2. 3)	I_{FSM}	100	Amps
Operating Junction Temperature Range	T_J	-55 to 150	°C
Storage Temperature Range	T_{STG}	-55 to 150	°C

Notes:

1. Non-repetitive current pulse, per Fig.3 and derated above T_A=25°C per Fig.2.
2. Mounted on 5.0mm^2 (0.03mm thick) Copper Pads to each terminal.
3. 8.3 ms single half sine-wave, or equivalent square wave, Duty cycle=4 pluses per minute maximum.

Electrical Specification @ Tamb 25°C

Type Number	Marking	Breakdown Voltage Min. @I_T	Test Current	Reverse Stand-Off Voltage	Maximum Reverse Leakage @ V_{RMW}	Maximum Clamping Voltage @I_{PP} 10/1000us	Peak Pulse Current
		$V_{BR\ MIN}$(V)	I_T (mA)	V_{RMW}(V)	I_R(uA)	V_C(V)	I_{PP}(A)
SMBJ3.3A	KC	4.1	1.0	3.3	200.0	7.3	50.0

Ratings and Characteristic Curves T_A=25°C unless otherwise noted

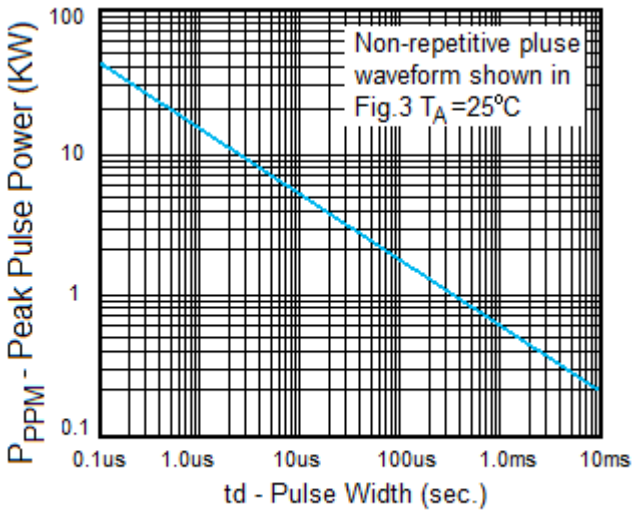


Fig. 1 Peak Pulse Power Rating

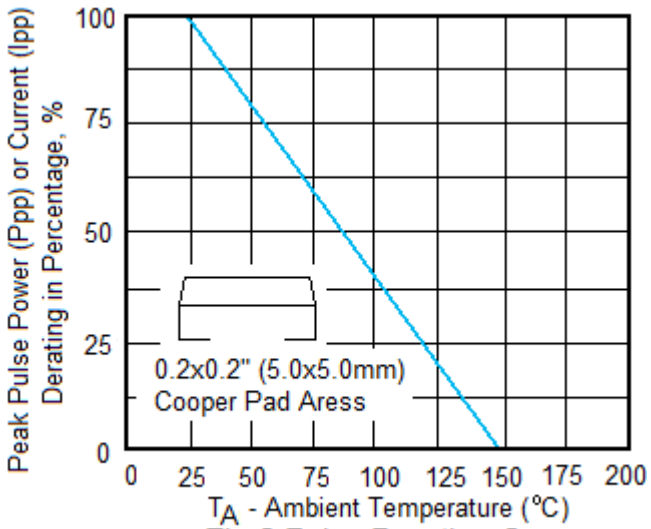


Fig.2 Pulse Derating Cure

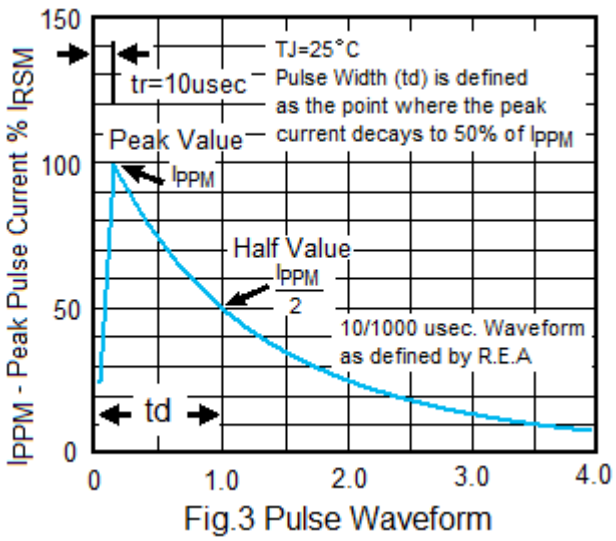


Fig.3 Pulse Waveform