

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:
260°C/10seconds
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking



SMBF

Mechanical Data

- Case:SMBF Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

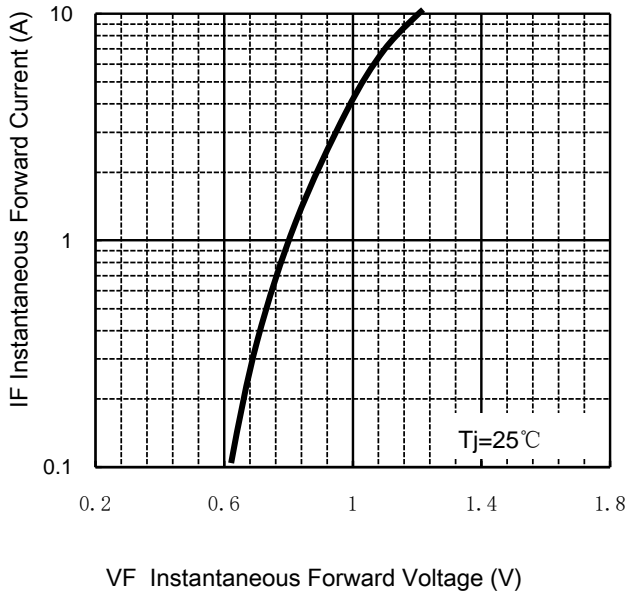
Parameter	Symbols	S2ABF	S2BBF	S2DBF	S2GBF	S2JBF	S2KBF	S2MBF	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	3.0							A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	80							A
@IF=3.0A Maximum forward voltage	V_F	1.1							V
@ V_{DC}	I_R	5							μA
Maximum reverse current		100							
Typical thermal resistance (Note 1)	$R_{\theta JA}$	45							°C/W
VR=4.0V,f=1MHz	C_J	35							pF
Type junction capacitance									
Operating junction temperature rang	T_J	-55 --- +150							°C
Storage temperature rang	T_{STG}	-55 --- +150							°C

Note:

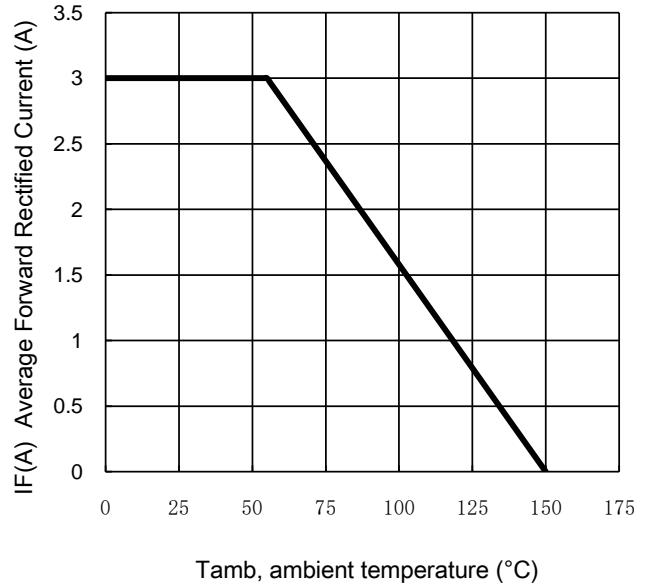
1) Thermal resistance from junction to ambient, PCB mounted.

Characteristic Curves

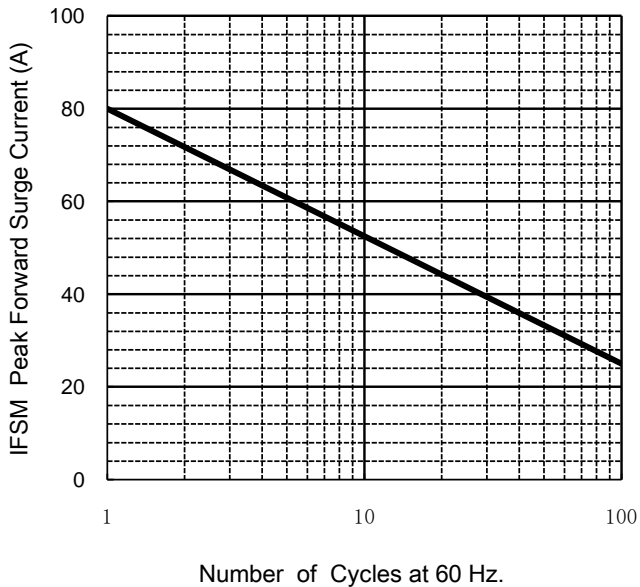
TYPICAL FORWARD CHARACTERISTIC



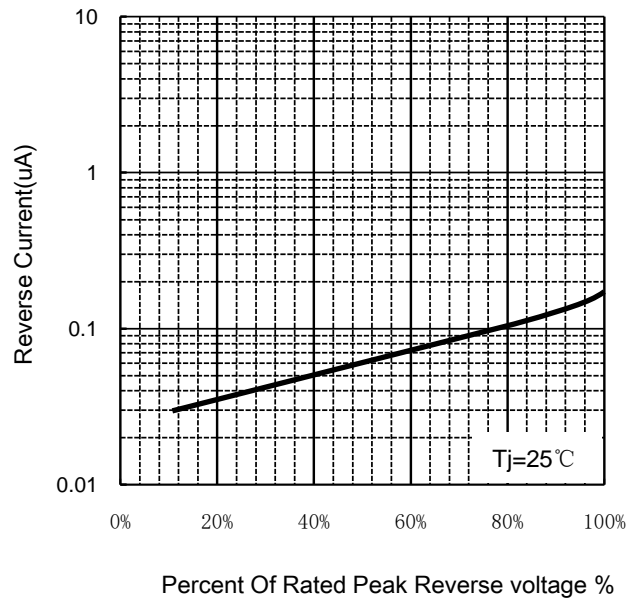
FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT

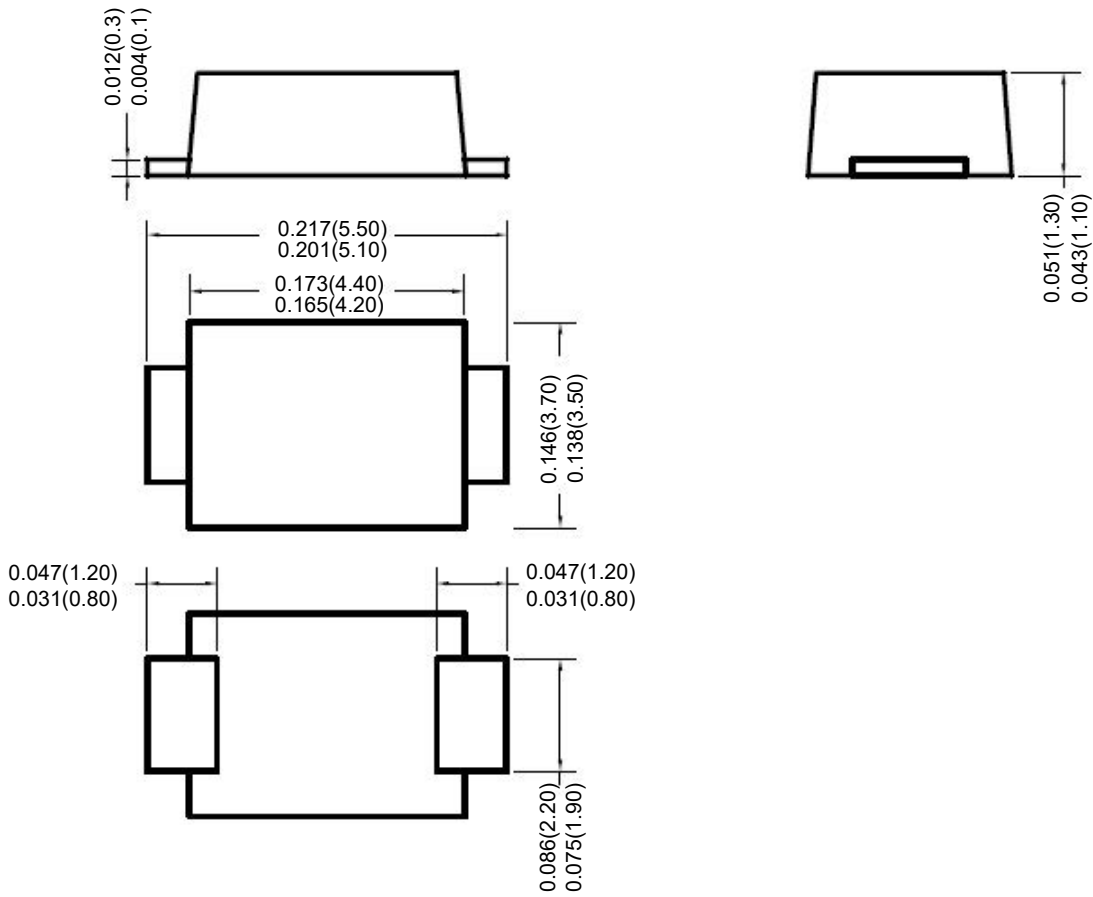


Typical Reverse Characteristics



Package Outline

SMBF



Unit: inch (mm)

Package Information

Qty: 3,000/Tape and reel