



## Features

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Low forward voltage drop



SMBF



## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS510-BF	SMBF	SS510BF	3000

## Maximum Ratings (Ta=25°C unless otherwise noted)

Type Number	Limit	Units
Maximum Recurrent Peak Reverse Voltage	100	V
Maximum RMS Voltage	70	V
Maximum DC Blocking Voltage	100	V
Maximum Average Forward Rectified Current at T <sub>L</sub> =100°C	5.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	120	A
Maximum Instantaneous Forward Voltage at 5.0A	0.67	V
Maximum DC Reverse Current Ta=25°C	0.1	mA
at Rated DC Blocking Voltage Ta=100°C	20	mA
Typical Junction Capacitance (Note1)	370	PF
Typical Thermal Resistance R <sub>θ</sub> JL(Note 2)	25	°C/W
Operating Temperature Range T <sub>J</sub>	-65 — +175	°C
Storage Temperature Range T <sub>stg</sub>	-65 — +175	°C

### NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Lead Vertical PC Board Mounting 0.375"(9.5mm) Lead Length.



## Typical Characteristics

FIG.1-FORWARD CURRENT DERATING CURVE

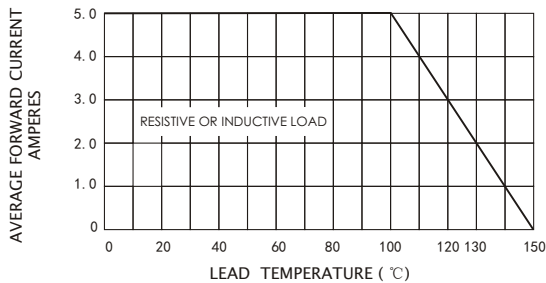


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

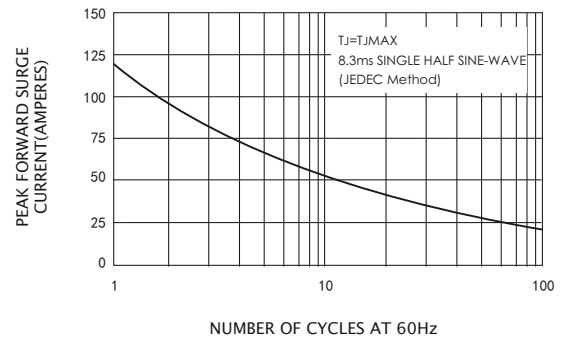


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

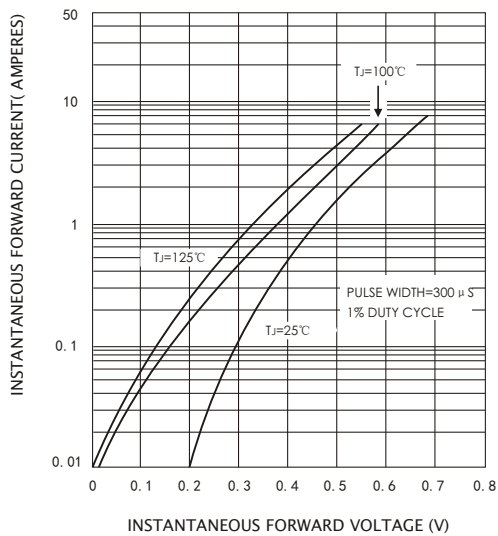


FIG.4-TYPICAL REVERSE CHARACTERISTICS

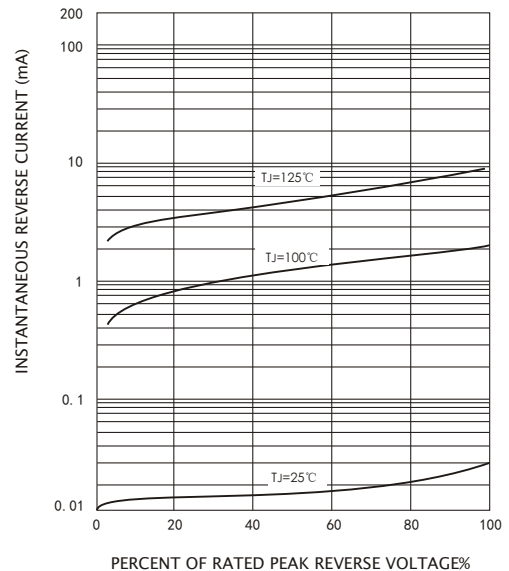
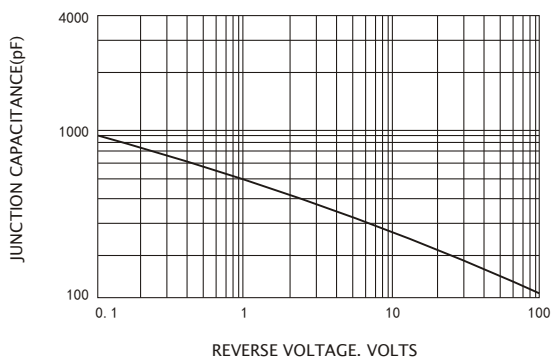
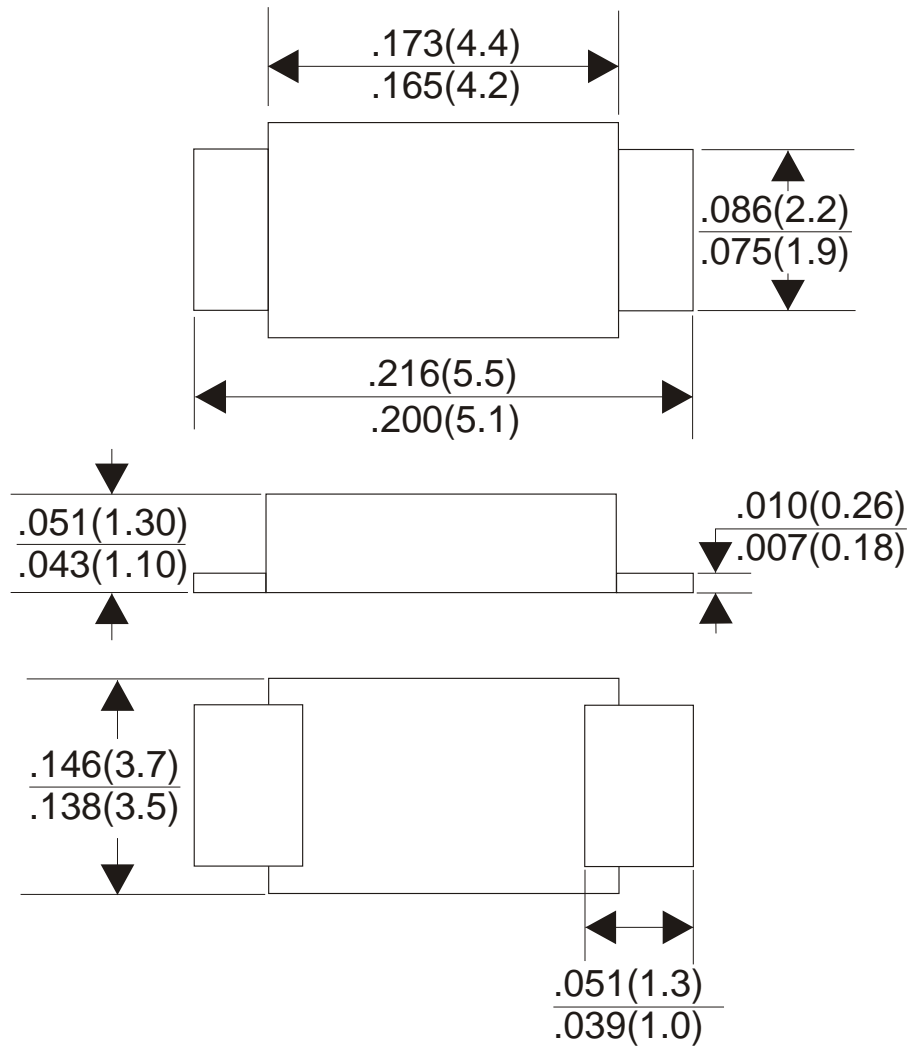


FIG.5-TYPICAL JUNCTION CAPACITANCE





**Package Outline Dimensions**  
**SMBF**



Dimensions in inches and (millimeters)



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