



Features

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



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS5xxBF	SMBF	SS5xxBF	3000

SMBF



xx: From to 15,20

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

Type Number	SS515BF	SS520BF	Units
Maximum Recurrent Peak Reverse Voltage	150	200	V
Maximum RMS Voltage	105	140	V
Maximum DC Blocking Voltage	150	200	V
Maximum Average Forward Rectified Current at T _L =100°C	5.0		A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	150		A
Maximum Instantaneous Forward Voltage at 5.0A	0.92		V
Maximum DC Reverse Current Ta=25°C	0.02		mA
at Rated DC Blocking Voltage Ta=100°C	2		mA
Typical Junction Capacitance (Note1)	380		PF
Typical Thermal Resistance R _{θJL} (Note 2)	12		°C/W
Operating Temperature Range T _J	-65 — +175		°C
Storage Temperature Range T _{STG}	-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-TYPICAL FORWARD CURRENT DERATING CURVE

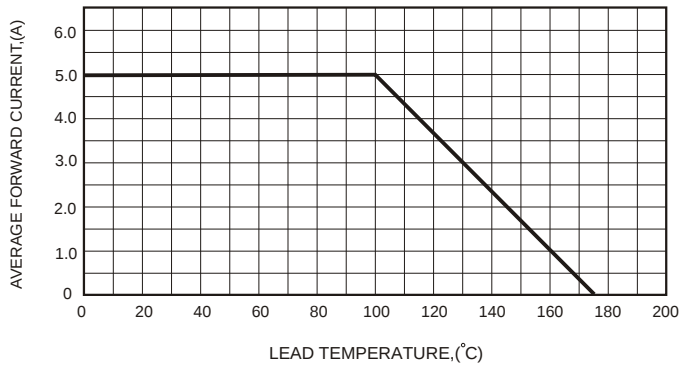


FIG.2-TYPICAL FORWARD CHARACTERISTICS

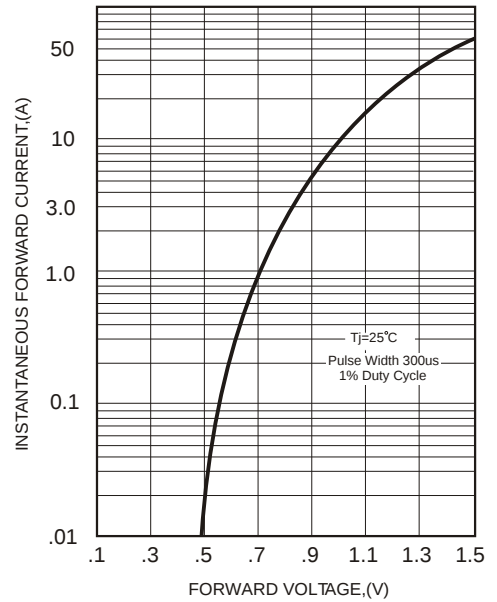


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

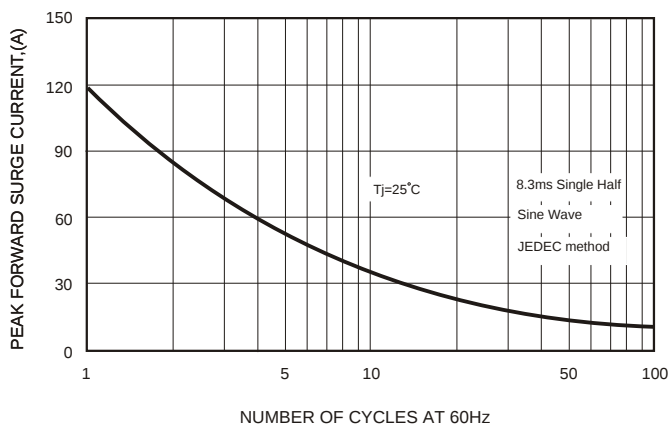


FIG.4-TYPICAL JUNCTION CAPACITANCE

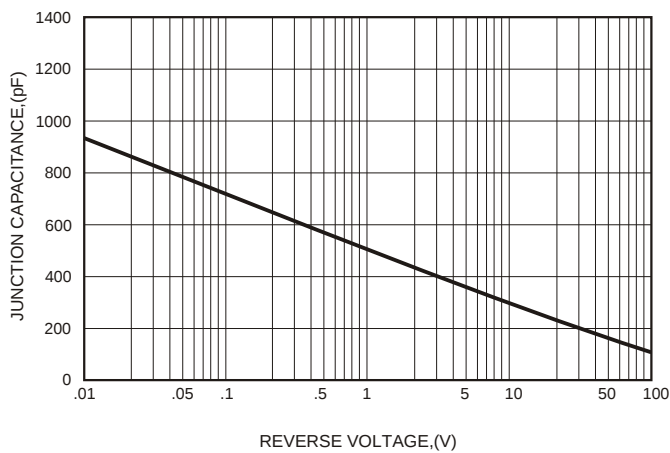
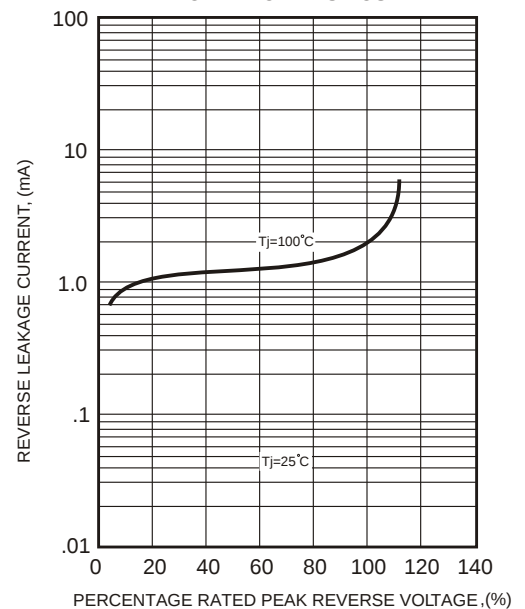
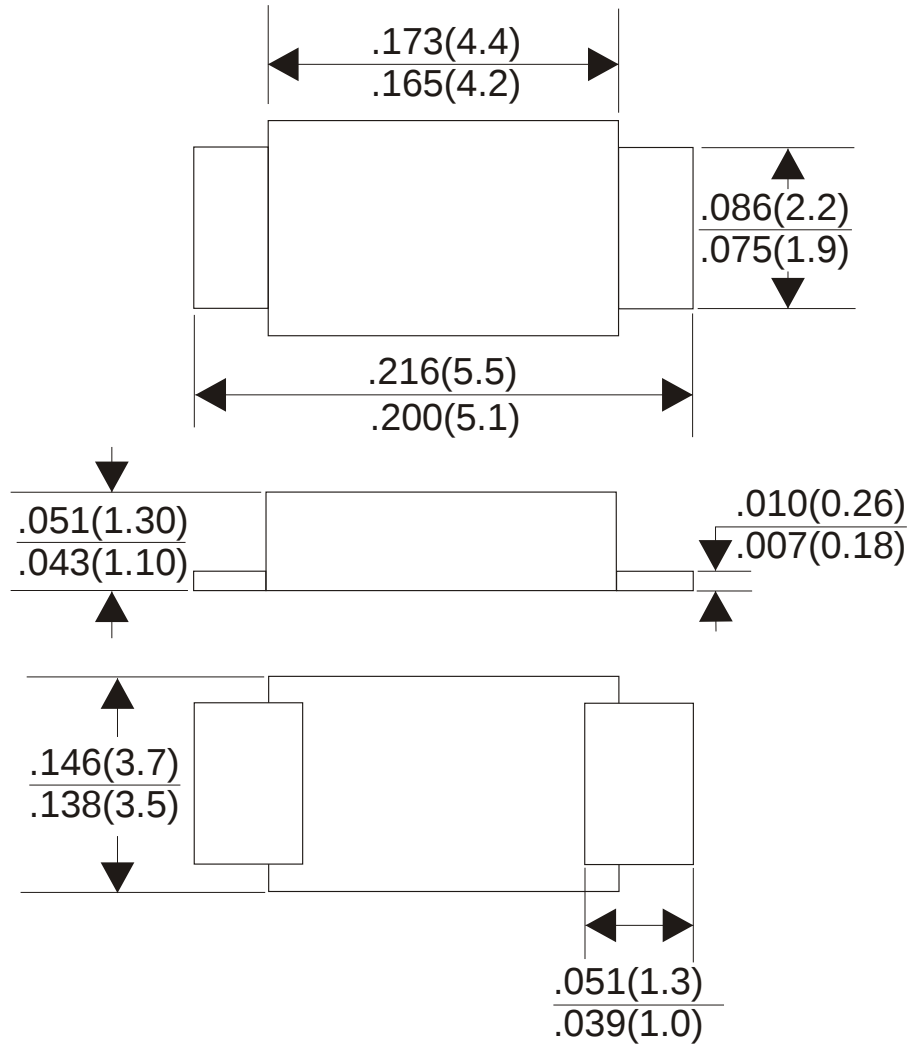


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions
SMBF



Dimensions in inches and (millimeters)



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