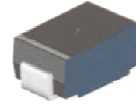


VOLTAGE RANGE: 50Volts TO 1000Volts
CURRENT : 2.0 Ampere



Top View of SMBF and Schematic

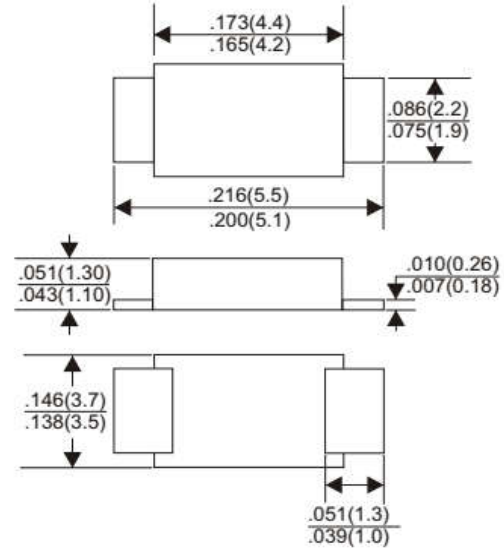
Features

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

Mechanical Data

- * Case: Molded plastic SMBF
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-202F, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.093 grams

PKG: SMBF



Maximum Ratings and Electrical Characteristics

Rating 25°C ambient temperature uness otherwies specified.
 Single phase half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

TYPE NUMBER		S2ABF	S2BBF	S2DBF	S2GBF	S2JBF	S2KBF	S2MBF	units
Maximum Recurrent 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 _R	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _J =75°C	I _o	2.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	60							A
Maximum Instantaneous Forward Voltage at 2.0A	V _F	1.1							V
Maximum DC Reverse Current at Rate DC Blocking Voltage	I _R	5.0							uA
		200							uA
Typical Junction Capacitance ^{Note1}	C _J	30							pF
Typical Thermal Resistance ^{Note2}	R _{JA}	16							'C/W
Operating and Storage Temperature Range	T _J , T _{STG}	- 65 ~ + 150							'C

Note: 1 Measured at 1MHz and applied reverse voltage of 4.0V D.C
 2 Thermal Resistance Junction to Lead

Typical Characteristics (T_J = 25°C unless otherwise noted)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

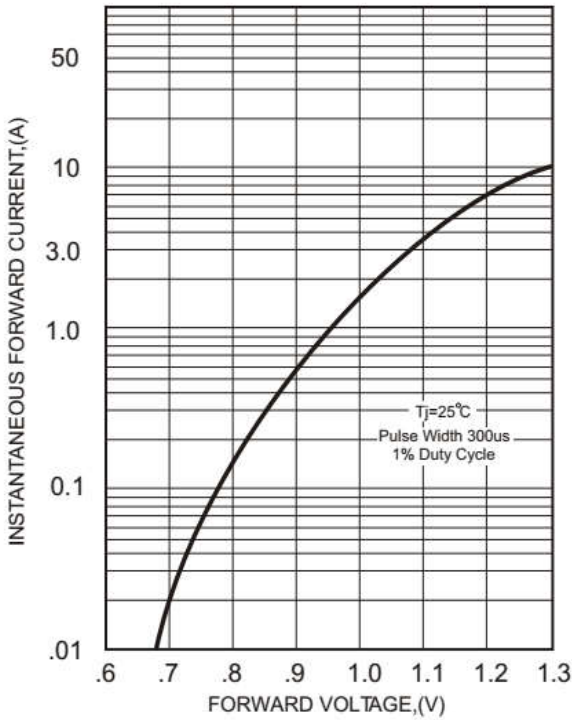


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

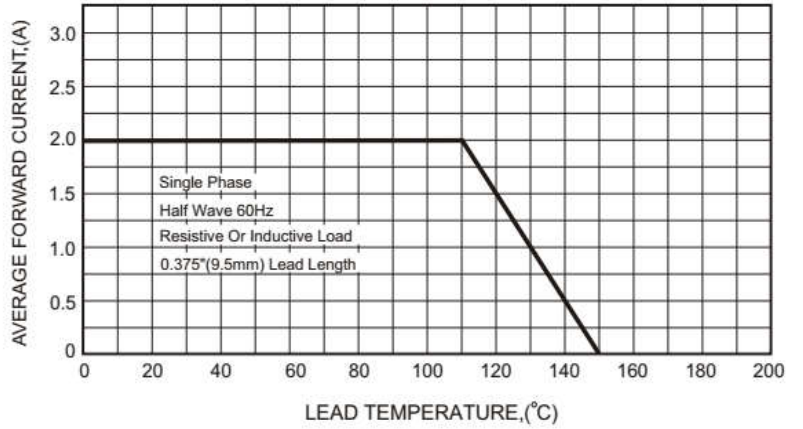


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

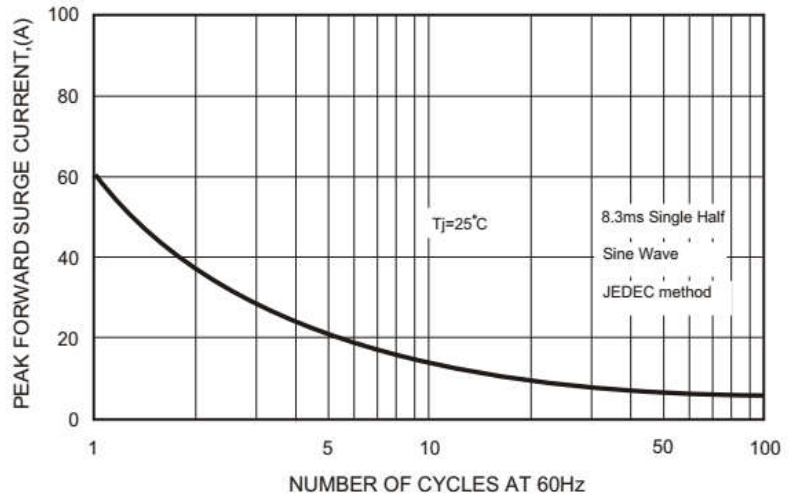


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

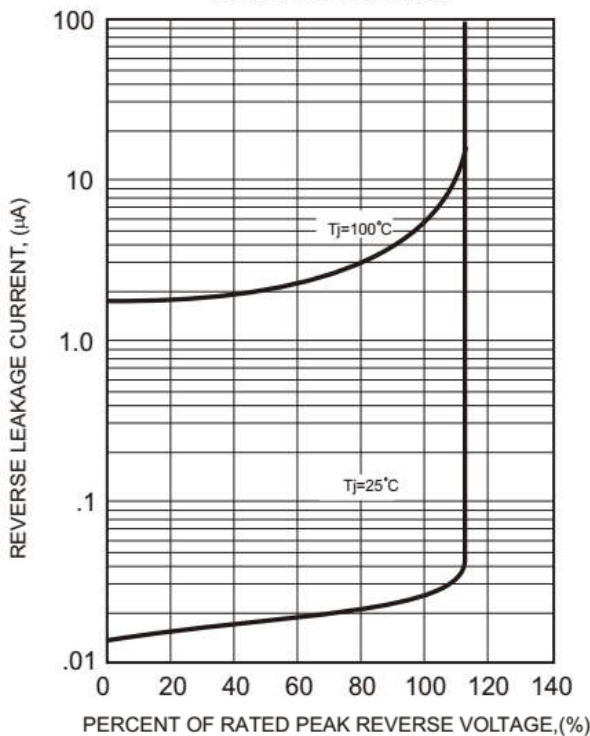


FIG.5-TYPICAL JUNCTION CAPACITANCE

