



SS34BFH THRU SS320BFH

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE: 40 to 200VOLTS

FORWARD CURRENT: 3.0 AMPERE

FEATURES

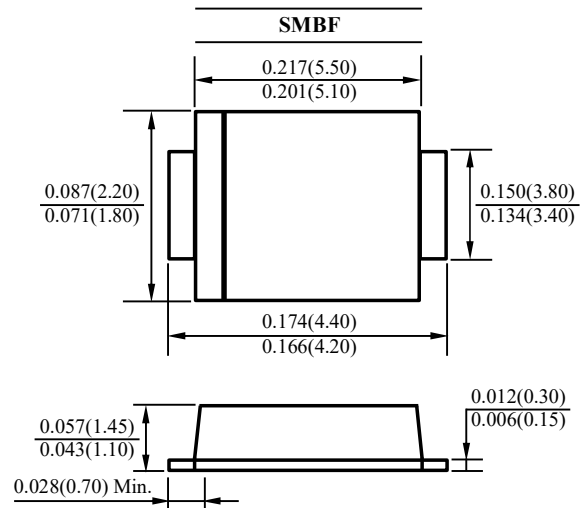
- Low forward voltage drop
- Low power loss,high efficiency
- High forward surge current capability
- Suffix "H" indicates Halogen-free parts, ex. SS34BFH

MECHANICAL DATA

Case : Molded plastic, SMBF

Terminals : Solder plated, solderable per MIL-STD-750,
method 2026 guaranteed

Polarity : Color band denotes cathode end



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Parameter	Symbols	SS34BFH	SS36BFH	SS310BFH	SS315BFH	SS320BFH	Units
		SS34BF	SS36BF	SS310BF	SS315BF	SS320BF	
Marking Code							
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	60	100	150	200	Volts
Maximum RMS Voltage	V_{RMS}	28	42	70	105	140	Volts
Maximum DC Blocking Voltage	V_{DC}	40	60	100	150	200	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	3					Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80					Amp
Maximum Forward Voltage at 3.0A	V_F	0.55	0.70	0.85	0.95		Volts
Maximum Reverse Current at Rated DC Blocking Voltage	I_R	0.5			0.1		mAmp
at $T_J=25^\circ\text{C}$ $T_J=100^\circ\text{C}$		20.0		10.0	2.0		
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	75					°C/W
Operating Junction Temperature Range	T_J	-65 to +125		-65 to +150			°C
Storage Temperature Range	T_{stg}	-65 to +150					°C

NOTES:

1- Thermal resistance from junction to ambient mounted on P.C.B. with 8.0 mm x 8.0 mm copper pad areas



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RATINGS AND CHARACTERISTIC CURVES

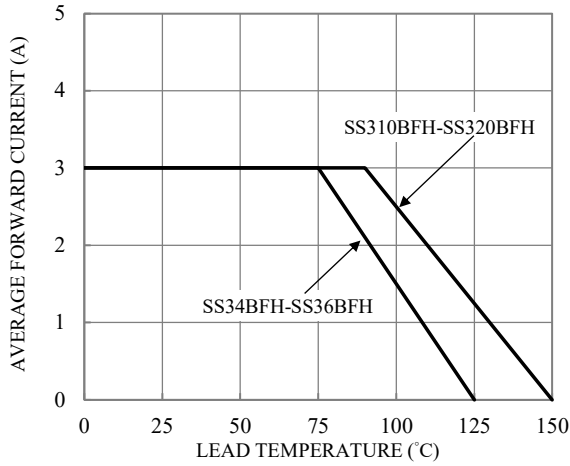


Fig.1-FORWARD CURRENT DERATING CURVE

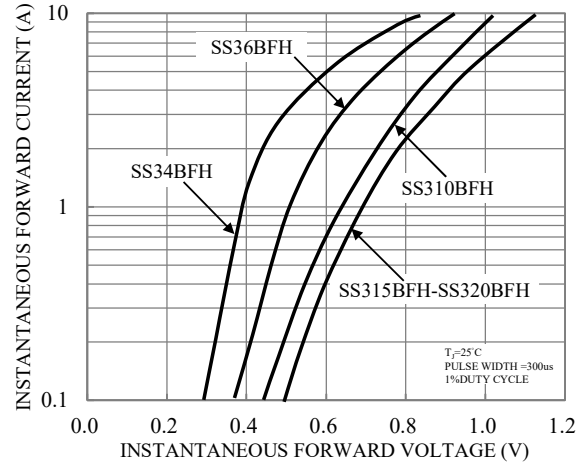


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

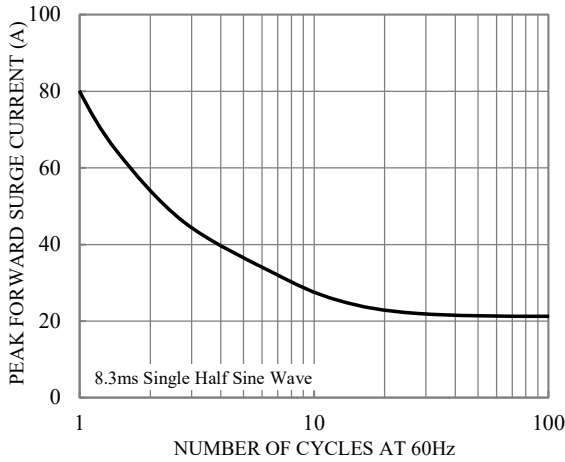


Fig.3-MAXIMUM NON-REPETITIVE SURGE CURRENT

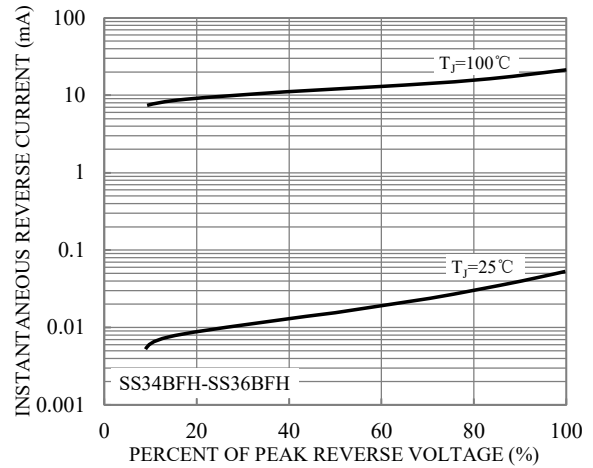


Fig.4-TYPICAL REVERSE CHARACTERISTICS

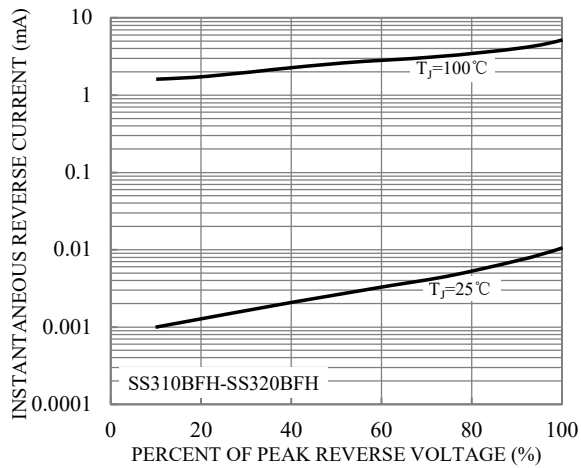


Fig.5-TYPICAL REVERSE CHARACTERISTICS