

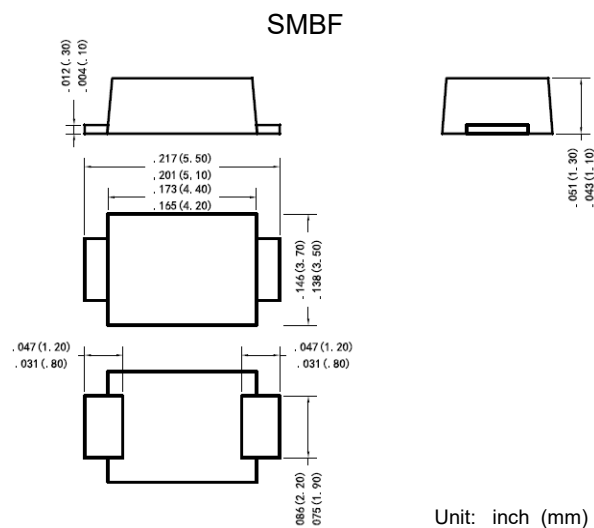
Surface Mounted Schottky Barrier Diode

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:
260°C/10seconds
- AEC-Q101 qualified
- Lead and body according with RoHS standard

Mechanical Data

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



Maximum Ratings & Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbols	SS34BFQ	SS36BFQ	SS310BFQ	SS315BFQ	SS320BFQ	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	40	60	100	150	200	V
Maximum RMS voltage	V _{RMS}	28	42	70	105	140	V
Maximum DC blocking voltage	V _{DC}	40	60	100	150	200	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	0.55	0.70	0.85	0.95		V
@V _{DC} Maximum reverse current	I _R	1000		100			μA
TA= 25°C		20		10			mA
Typical thermal resistance (Note 1)	R _{θJA}	75					°C/W
	R _{θJL}	15					
VR=4.0V,f=1MHz Type junction capacitance	C _J	320					pF
Operating junction	T _J	-55 --- +125			-55 --- +150		°C
Storage temperature rang	T _{STG}	-55 --- +150					°C

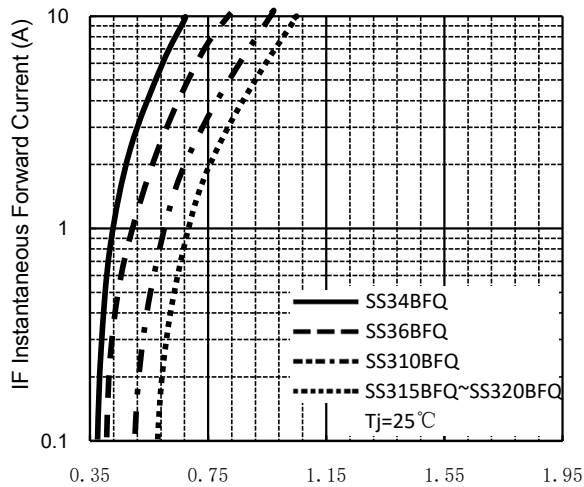
Note:

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



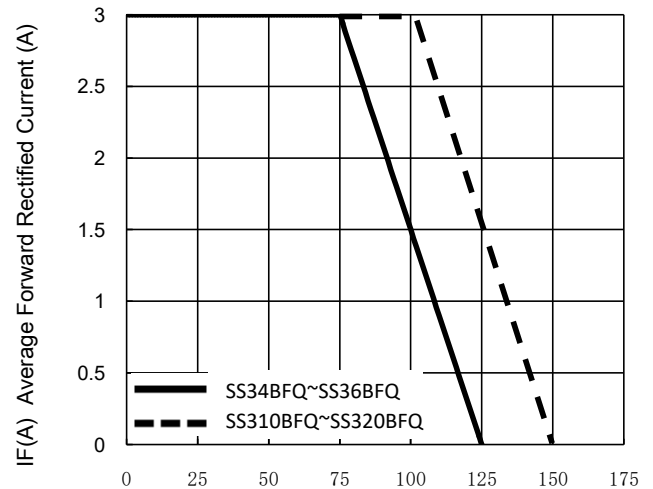
Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



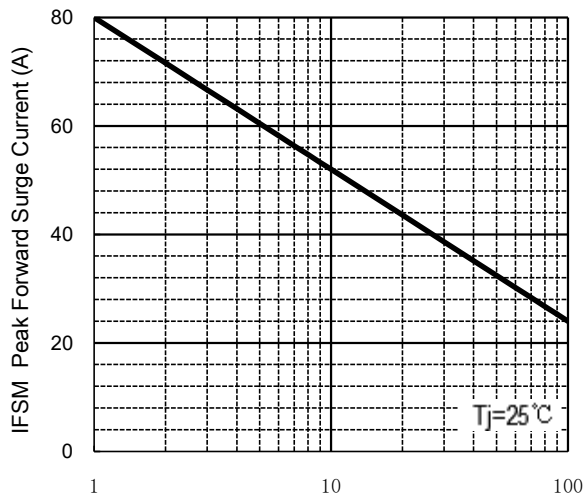
VF Instantaneous Forward Voltage (V)

FORWARD CURRENT DERATING CURVE



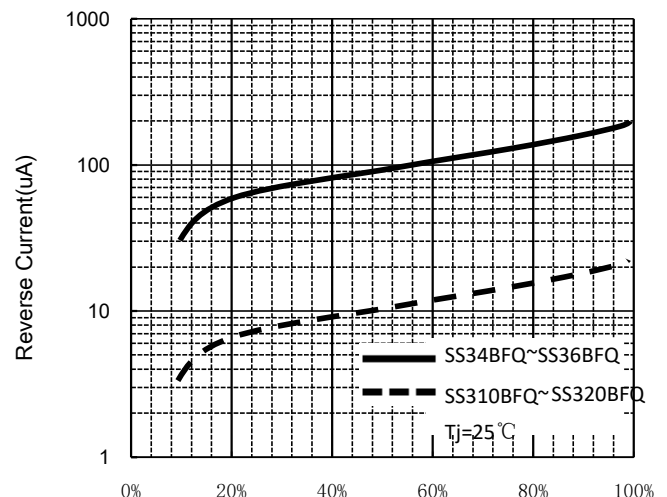
T_j, Lead temperature (°C)

MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



Number of Cycles at 60 Hz.

Typical Reverse Characteristics



Percent Of Rated Peak Reverse voltage %