

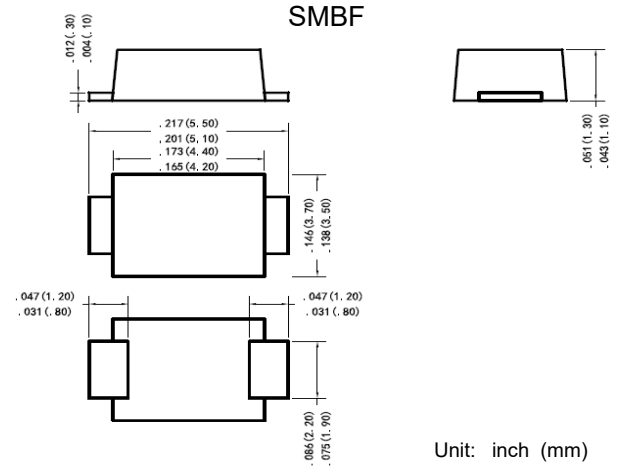
Surface Mounted Schottky Barrier Diode

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°C unless otherwise noted)

Parameter	Symbols	SS52 BFQ	SS53 BFQ	SS54 BFQ	SS55 BFQ	SS56 BFQ	SS58 BFQ	SS510 BFQ	SS515 BFQ	SS520 BFQ	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}	5.0									A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	150									A
@IF=5.0A Maximum forward voltage	V _F	0.55			0.70		0.85		0.92	0.95	V
@V _{DC} Maximum reverse current	I _R	500					100				μA
TA= 25°C TA= 100°C		20					10				mA
Typical thermal resistance (Note 1)	R _{θJA}	85									°C/W
	R _{θJL}	25									
VR=4.0V,f=1MHz Type junction capacitance	C _J	300									pF
Operating junction	T _J	-55 --- +125					-55 --- +150				°C
Storage temperature rang	T _{STG}	-55 --- +150									°C

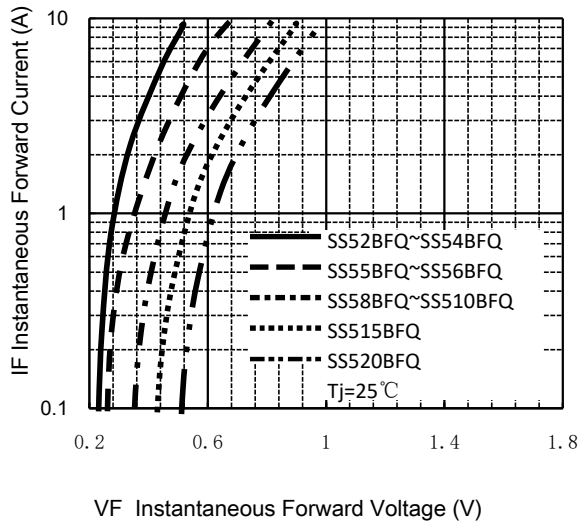
Note:

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

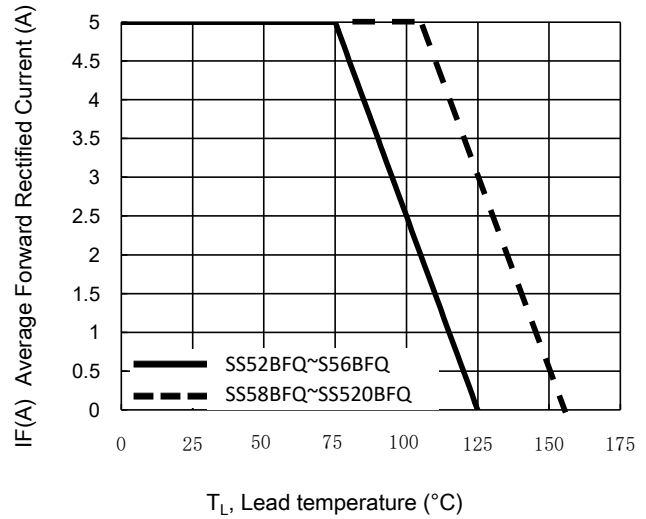


Characteristic Curves

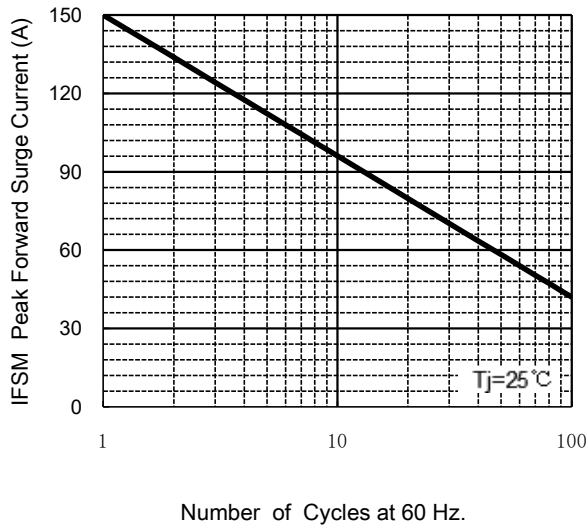
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics

