



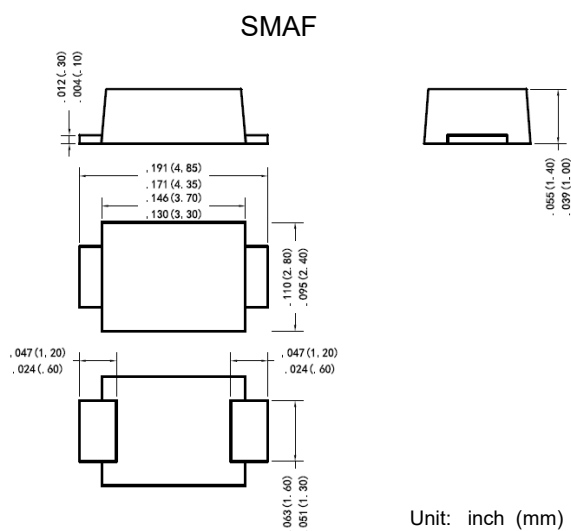
Surface Mounted Schottky Barrier Diode

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:SMAF 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	SS14AFQ	SS15AFQ	SS16AFQ	SS18AFQ	SS110AFQ	SS115AFQ	SS120AFQ	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	40	50	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	40	50	60	80	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}	1.0							A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	30							A
@IF=1.0A 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		20			10			mA	
TA= 100°C									
Typical thermal resistance (Note 1)	R _{θJA}	65							°C/W
VR=4.0V,f=1MHz Type junction capacitance	C _J	180							pF
Operating junction temperature rang	T _J	-55 --- +125			-55 --- +150				°C
Storage temperature rang	T _{STG}	-55 --- +150							°C

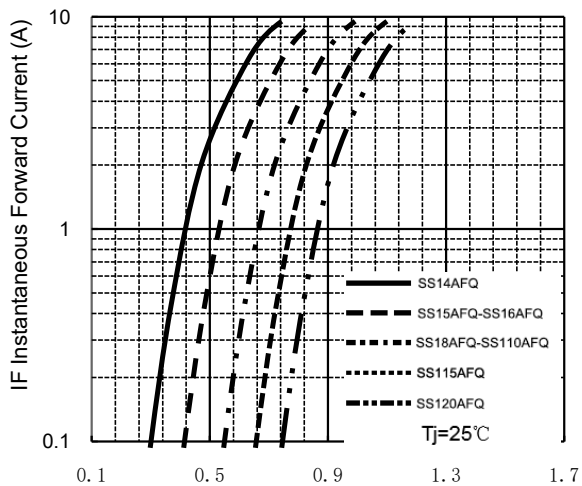
Note:

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



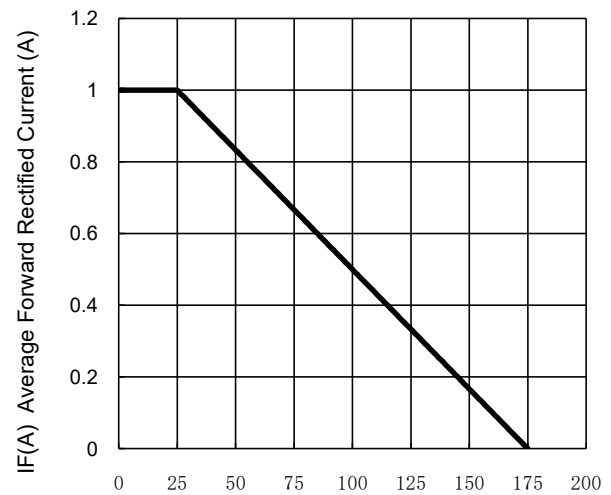
Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



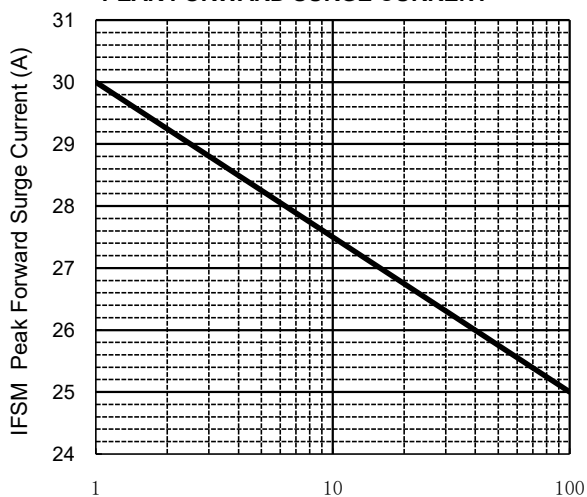
VF Instantaneous Forward Voltage (V)

FORWARD CURRENT DERATING CURVE



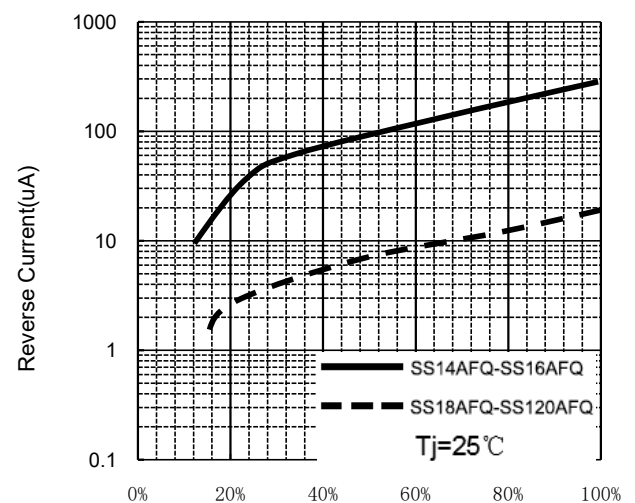
T_{amb} , ambient temperature ($^\circ\text{C}$)

MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



Number of Cycles at 60 Hz.

Typical Reverse Characteristics



Percent Of Rated Peak Reverse voltage %