

## 3A/SMC Series

### General Description

Schottky (Schottky) diode is also known as Schottky barrier Rectifiers (SBR,) has been in the power supply industry for 25 years, it is a low-power, ultra-high speed semiconductor devices, widely used in switching power supplies, frequency converters, Driver circuit, such as high frequency, low voltage, high current rectifier diode, continuous current diode, protection diode, or microwave communication circuit as rectifier diode, small signal detector diode.



DO-214AB(SMC)



Schottky diode schematic symbol

### ◆ FEATURES

- Compact package, easy to install
- Efficient overvoltage protection device
- Ultra-low forward pressure drop
- Ideal products for High Frequency Circuits
- Comply with relevant welding international standard MIL-STD-202

### Electrical Characteristics

TYPE	$I_{(AV)}$	$V_{RRM}$	$I_{RSM}$	$V_{FM}$		$I_{RM} @ V_{RRM}$	Case Style
		@ $I_{RM}$		$V_{FM}$	$I_{(AV)}$	$T_A=25^{\circ}C$	
	A	V	A	V	A	mA	
SS32/SMB	3.0	20	150	0.50	3.0	0.5	SMB/Do-214AB
SS33/ SMB	3.0	30	150	0.55	3.0	0.5	SMB/Do-214AB
SS34/ SMB	3.0	40	150	0.55	3.0	0.5	SMB/Do-214AB
SS35/ SMB	3.0	50	150	0.70	3.0	0.5	SMB/Do-214AB
SS36/ SMB	3.0	60	150	0.70	3.0	0.5	SMB/Do-214AB
SS38/ SMB	3.0	80	150	0.85	3.0	0.5	SMB/Do-214AB
SS310/ SMB	3.0	100	150	0.85	3.0	0.5	SMB/Do-214AB
SS315/ SMB	3.0	150	150	0.85	3.0	0.5	SMB/Do-214AB
SS320/ SMB	3.0	200	150	0.90	3.0	0.5	SMB/Do-214AB

- $I_{(AV)}$  ..... Average Forward Rectified Current
- $I_{RM}$  ..... Maximum Reverse Leakage Current
- $I_{RRM}$  ..... Repetitive Peak Reverse Current
- $I_{RSM}$  ..... Maximum Non-repetitive Reverse Peak Current
- $V_{FM}$  ..... Maximum Forward Voltage
- $V_{FR}$  ..... Forward Recovery Voltage
- $V_{RRM}$  ..... Maximum Repetitive Peak Reverse Voltage

Characteristics Curve (TA=25°C unless otherwise noted)

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

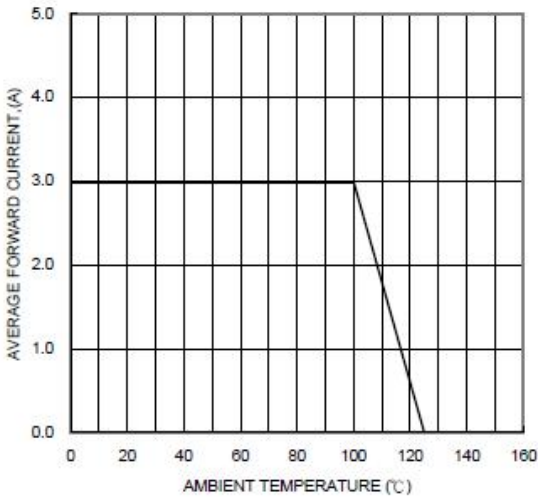


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

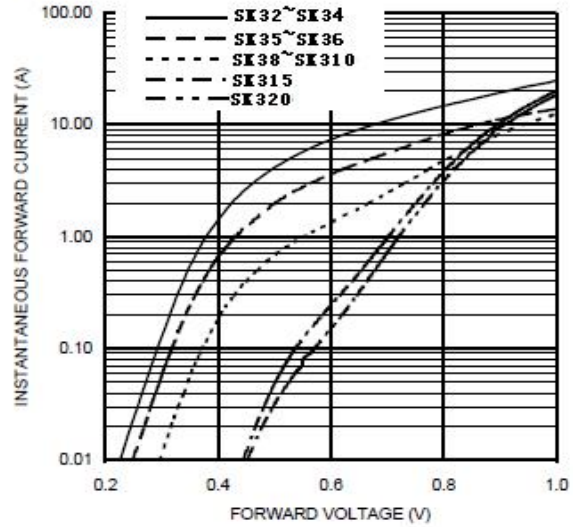


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

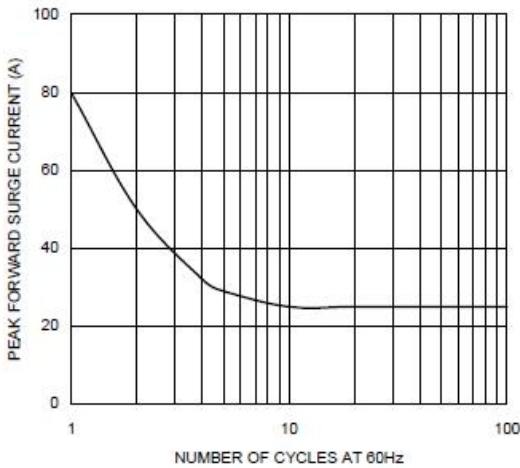


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

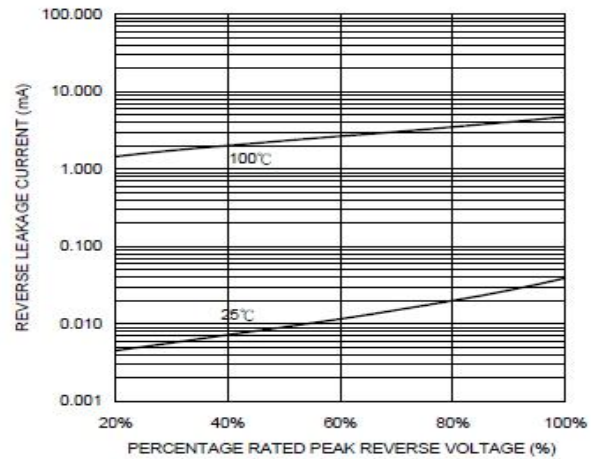
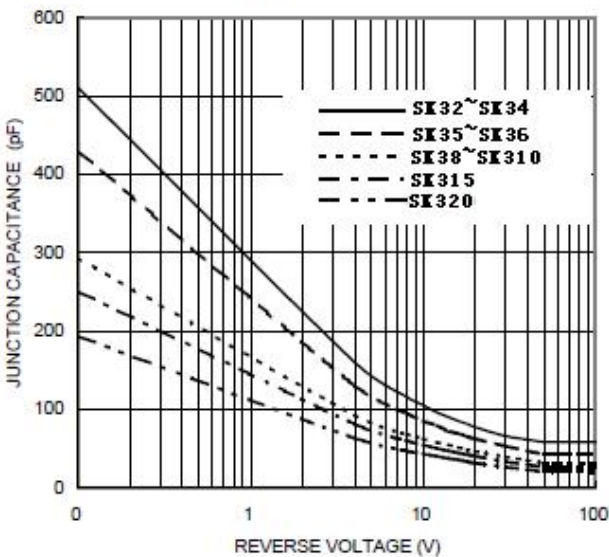
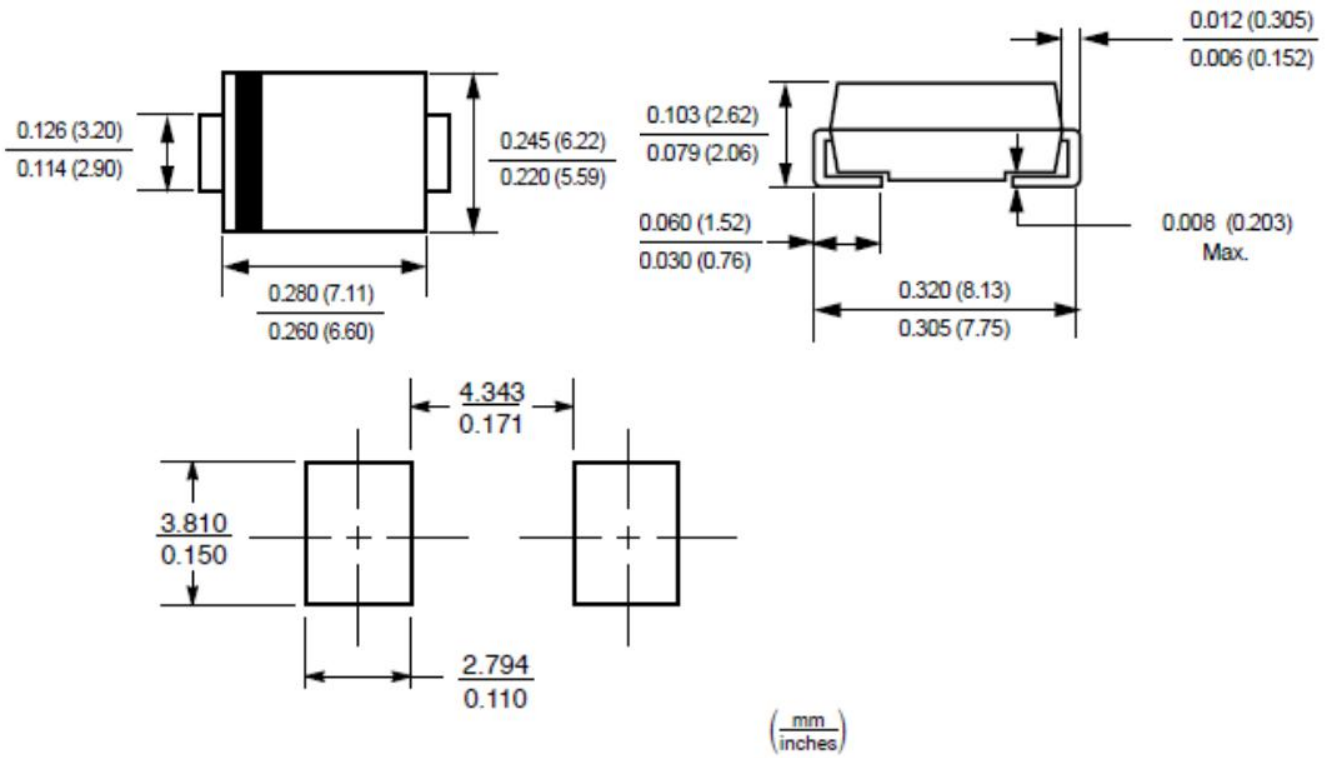


FIG. 5-TYPICAL JUNCTION CAPACITANCE



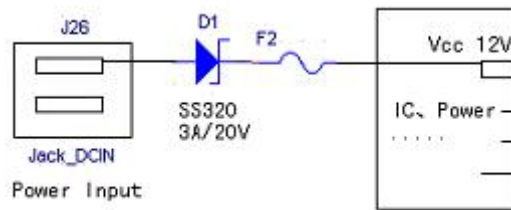
SMB (Dimension Unit: mm) Dimensions in inches and (millimeters)



PCB Layout mm/inch

Typical applications

Power management input circuit



High frequency circuit

