

5A/SMB 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-214AA(SMB)

◆ 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



Schottky diode schematic symbol

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	5.0	20	150	0.50	5.0	0.5	SMB/Do-214AA
SS33/ SMB	5.0	30	150	0.55	5.0	0.5	SMB/Do-214AA
SS34/ SMB	5.0	40	150	0.55	5.0	0.5	SMB/Do-214AA
SS35/ SMB	5.0	50	150	0.70	5.0	0.5	SMB/Do-214AA
SS36/ SMB	5.0	60	150	0.70	5.0	0.5	SMB/Do-214AA
SS38/ SMB	5.0	80	150	0.85	5.0	0.5	SMB/Do-214AA
SS310/ SMB	5.0	100	150	0.85	5.0	0.5	SMB/Do-214AA
SS315/ SMB	5.0	150	150	0.90	5.0	0.5	SMB/Do-214AA
SS320/ SMB	5.0	200	150	0.90	5.0	0.5	SMB/Do-214AA

- $I_{(AV)}$ 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 Forward Current Derating Curve

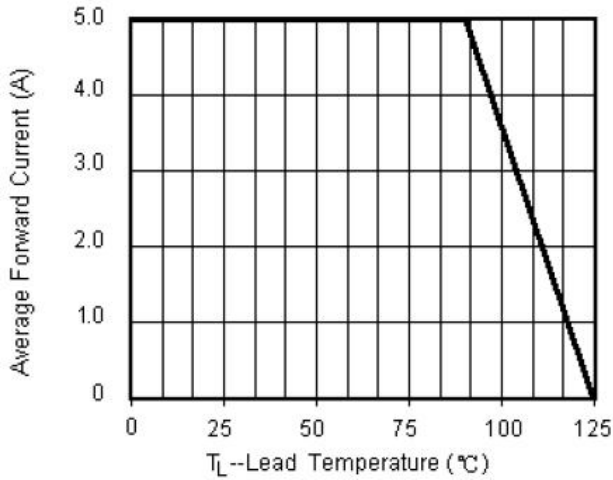


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

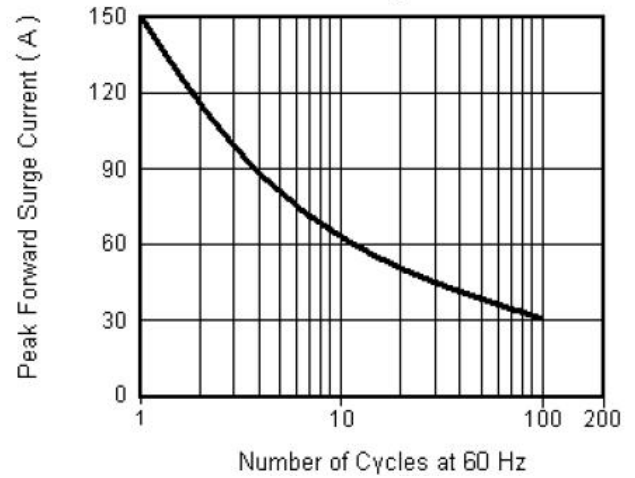


Fig.3 Typical Instantaneous Forward Characteristics

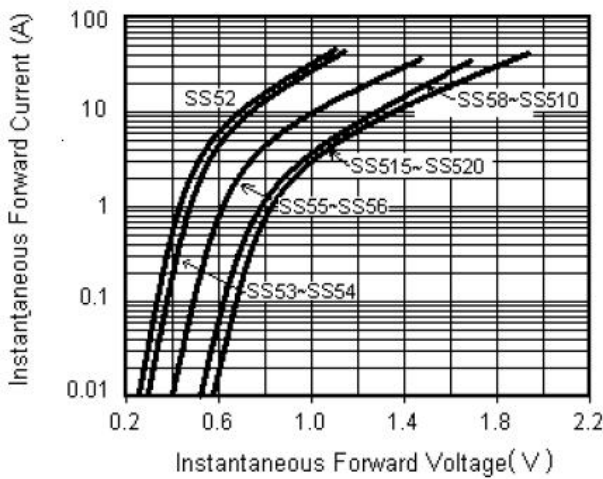


Fig.4 Typical Reverse Leakage Characteristics

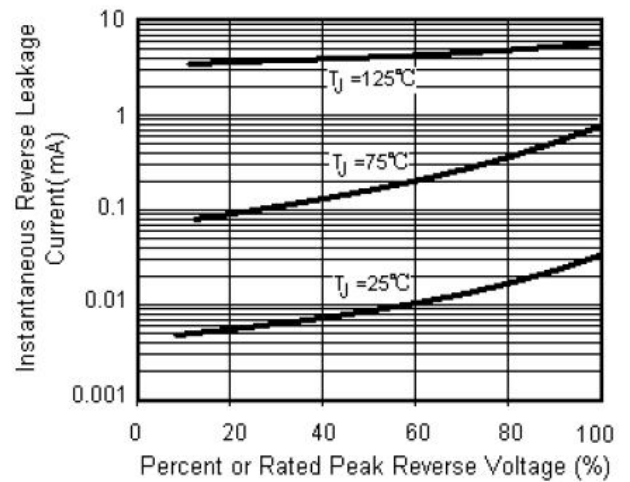
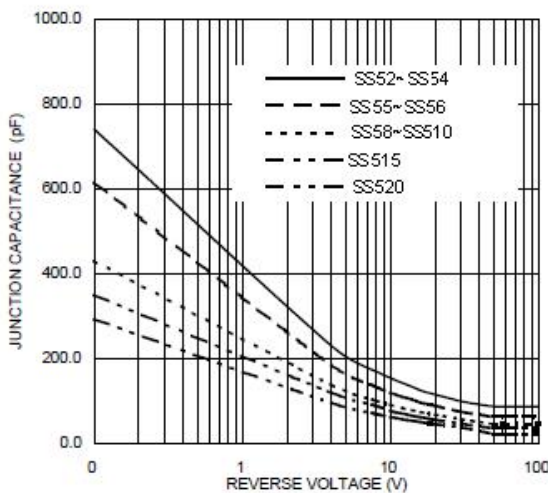
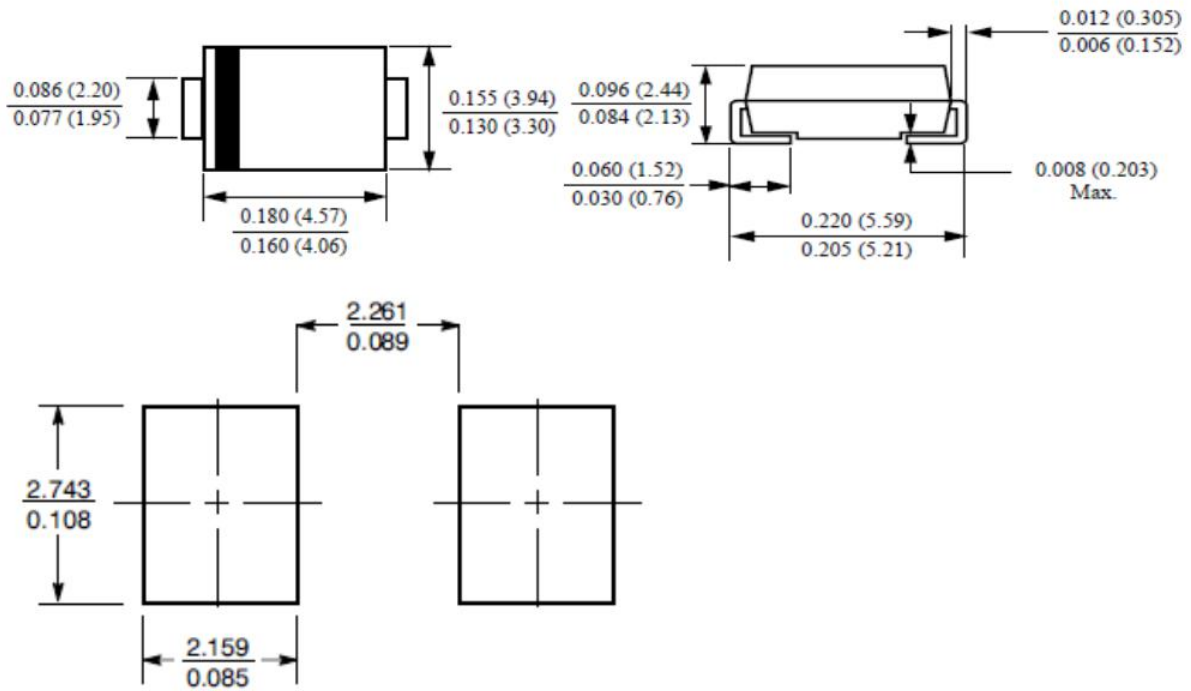


FIG. 5-TYPICAL JUNCTION CAPACITANCE



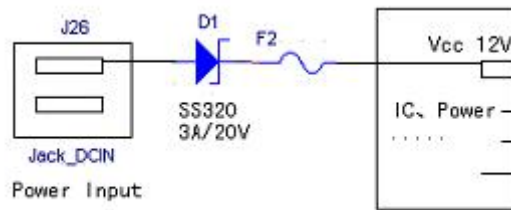
SMB (Dimension Unit: mm) Dimensions in inches and (millimeters)



PCB Layout mm/inch

Typical applications

Power management input circuit



High frequency circuit

