

## 1A/SMA Series

### Description

Schottky (Schottky) diode is also known as Schottky barrier diode (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.

### 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



DO-214AC(SMA)



Schottky diode schematic symbol

### Electrical Characteristics

TYPE	$I_{(AV)}$	$V_{RRM}$	$I_{FSM}$	$V_{FM}$		$I_{RM} @ V_{RRM}$	Case Style
		@ $I_{RM}$		$V_{FM}$	$I_{(AV)}$	$T_A=25^{\circ}C$	
	A	V	A	V	A	mA	
SS12/SMA	1.0	20	40	0.50	1.0	0.5	SMA /Do-214AC
SS13/ SMA	1.0	30	40	0.55	1.0	0.5	SMA /Do-214AC
SS14/ SMA	1.0	40	40	0.55	1.0	0.5	SMA /Do-214AC
SS15/ SMA	1.0	50	40	0.70	1.0	0.5	SMA /Do-214AC
SS16/ SMA	1.0	60	40	0.70	1.0	0.5	SMA /Do-214AC
SS18/ SMA	1.0	80	40	0.85	1.0	0.5	SMA /Do-214AC
SS110/ SMA	1.0	100	40	0.85	1.0	0.5	SMA /Do-214AC

- $I_{(AV)}$  ..... Average Forward Rectified Current 正向平均整流电流
- $I_{RM}$  ..... Maximum Reverse Leakage Current 最大反向漏电流
- $I_{RRM}$  ..... Repetitive Peak Reverse Current 重复峰值反向电流
- $I_{RSM}$  ..... Maximum Non-repetitive Reverse Peak Current 最大反向不重复峰值电流
- $V_{FM}$  ..... Maximum Forward Voltage 最大正向电压
- $V_{FR}$  ..... Forward Recovery Voltage 正向恢复电压
- $V_{RRM}$  ..... Maximum Repetitive Peak Reverse Voltage 重复峰值反向电压

**Characteristics Curve 产品特性曲线 (TA=25°C unless otherwise noted)**

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE    FIG. 2-TYPICAL FORWARD CHARACTERISTICS

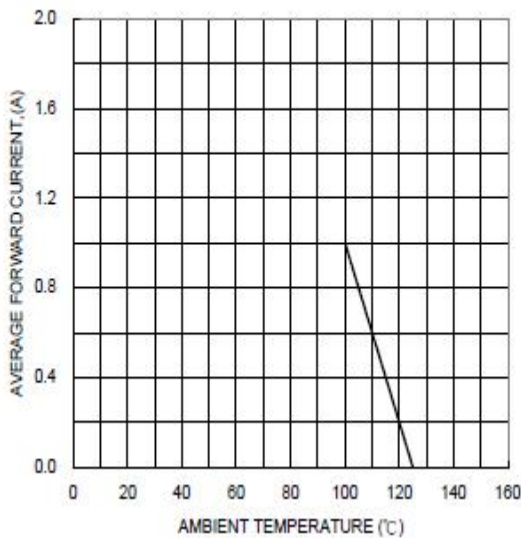


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

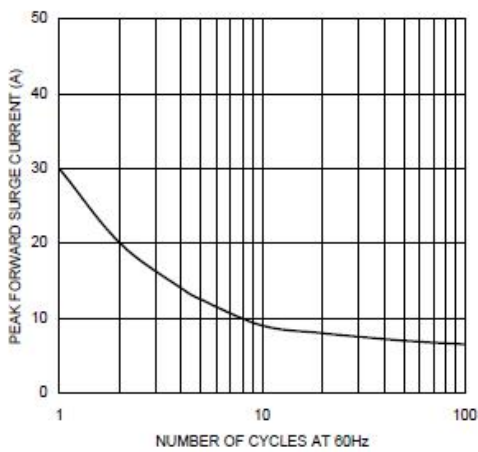


FIG. 5-TYPICAL JUNCTION CAPACITANCE

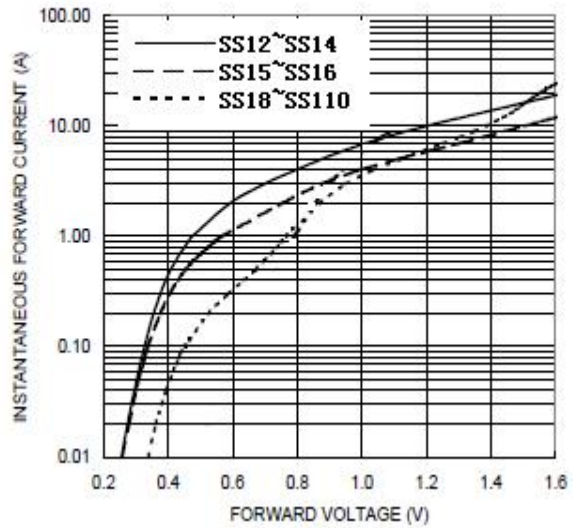
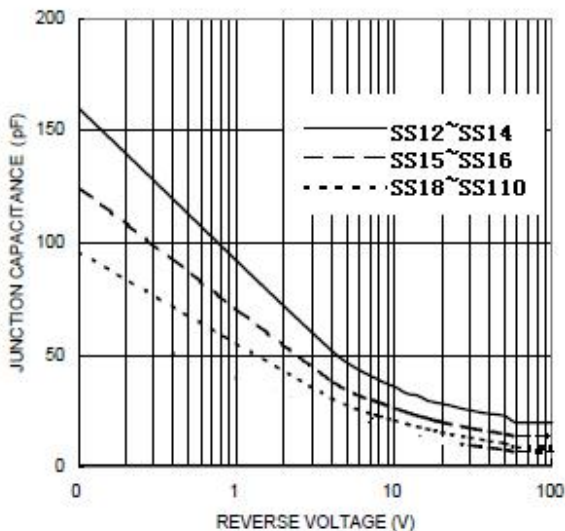
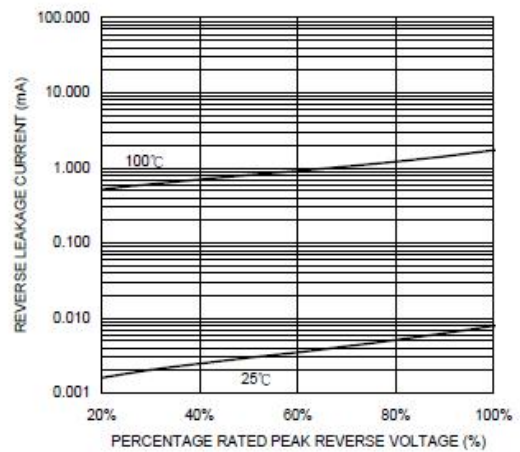
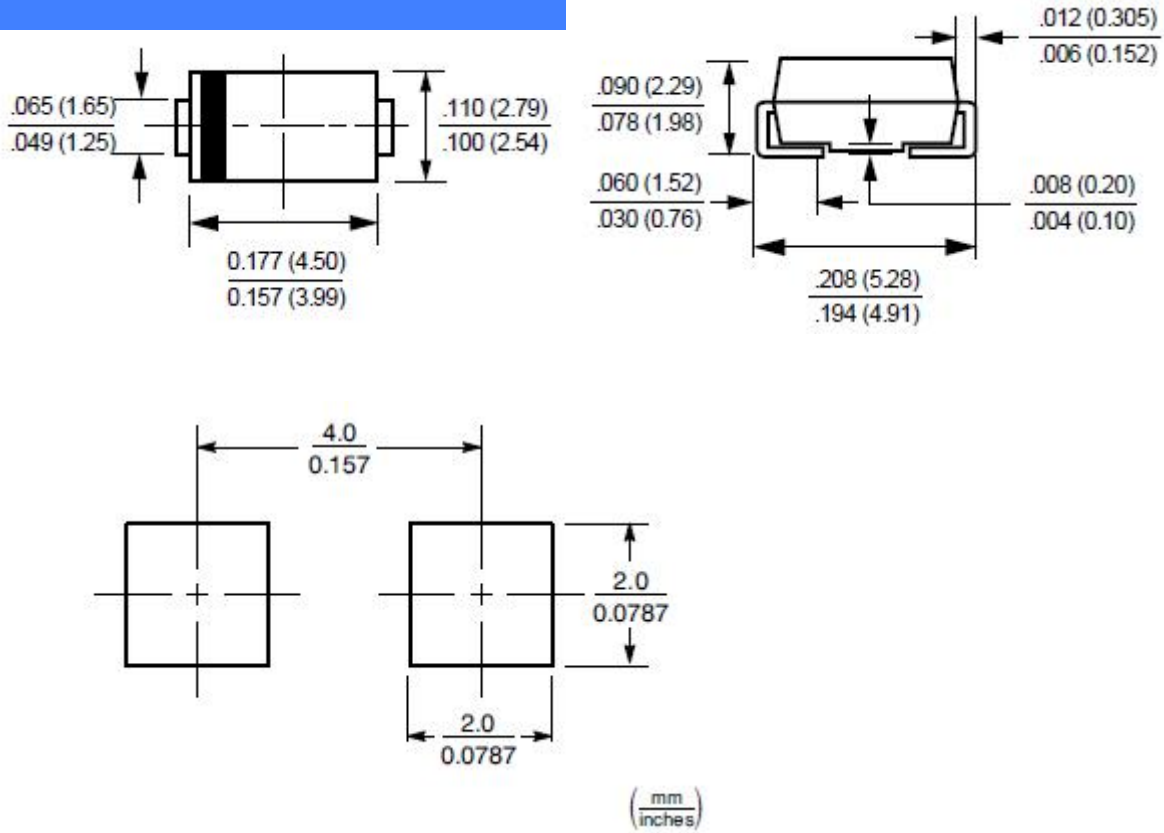


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



SMA 产品尺寸 (Dimension Unit: mm)

Dimensions in inches and (millimeters)



Packing Information

5,000PCS/Reel

30,000PCS /Box