

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 40 to 200 V

Forward Current - 10 A

FEATURES

- ◆ The plastic package carries Underwriters Laboratory
- ◆ Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:
260 C/10 seconds at terminals

MECHANICAL DATA

- ◆ Case: JEDEC DO-214AA molded plastic body
- ◆ Terminals: leads solderable per MIL-STD-750,
Method 2026
- ◆ Polarity: Color band denotes cathode end
- ◆ Mounting Position: Any
- ◆ Weight: 0.003 ounce, 0.093 grams


Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbols	SS1040B	SS1060B	SS10100B	SS10150B	SS10200B	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	28	42	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	40	60	100	150	200	V
Maximum Average Forward Rectified Current at	$I_{F(AV)}$	10					A
Non-repetitive peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	250					A
Maximum Instantaneous Forward Voltage at 10 A	V_F	0.55	0.7	0.85	0.95		V
Typical thermal resistance (Note 1)	$R_{\theta JA}$	85					°C/W
	$R_{\theta JL}$	25					°C/W
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage $T_A = 25^\circ C$ $T_A = 100^\circ C$	I_R	500 20		100 10			μA mA
Typical Junction Capacitance	C_j	400					pF
Operating Junction Temperature Range	T_j	-55 ~ +125		-55 ~ +150			°C
Storage Temperature Range	T_{stg}	-55 ~ +150					°C

Note: Thermal resistance from junction to ambient , PCB mounted.

Pinning

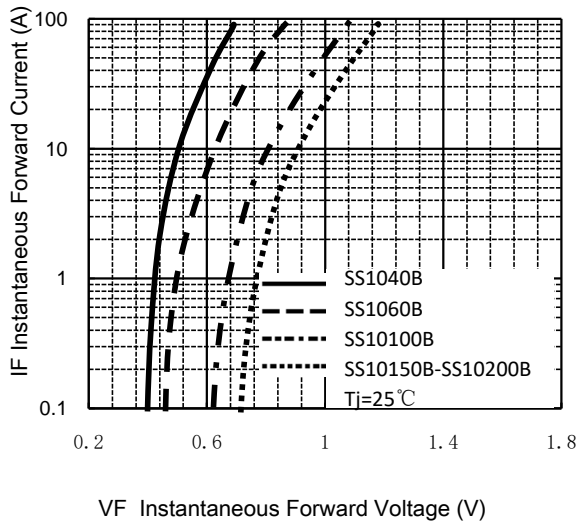
1.Cathode	2.Anode
	
DO-214AA/SMB	

Marking Code

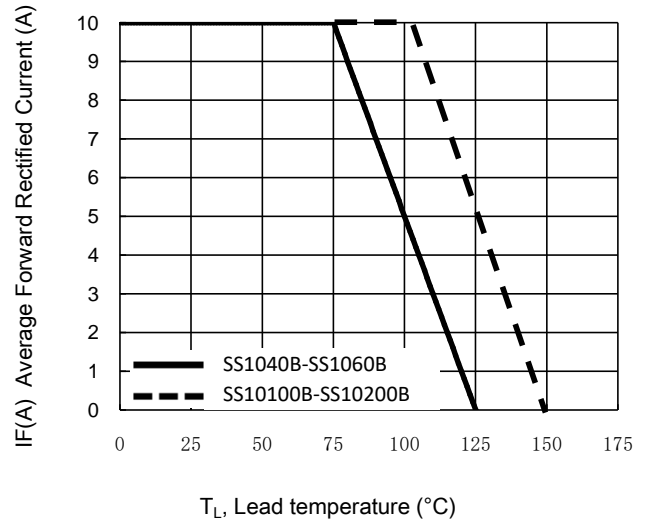
SS1040B	SS1040
SS1060B	SS1060
SS10100B	SS10100
SS10150B	SS10150
SS10200B	SS10200

Characteristic Curves

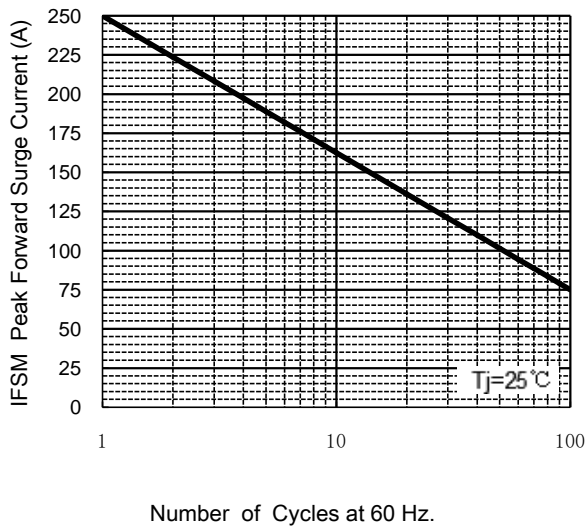
TYPICAL FORWARD CHARACTERISTIC



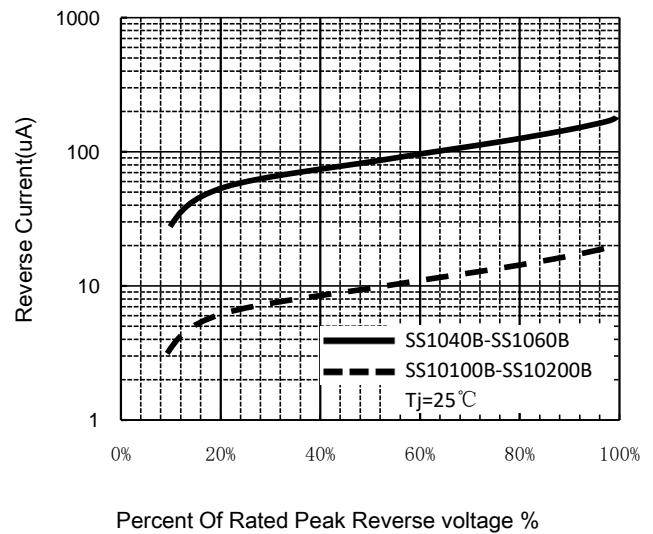
FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT

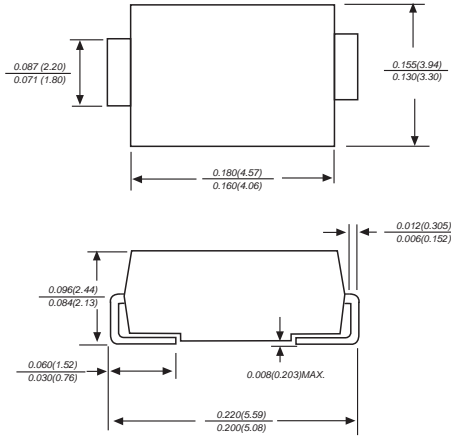


Typical Reverse Characteristics



Package Outline

DO-214AA SMB



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DO-214AA SMB	Tape/Reel, 13" reel	3000	EIA-481-1

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