

SS32B THRU SS320B

Surface Mount Schottky Barrier Rectifiers

Reverse Voltage - 20 to 200 V

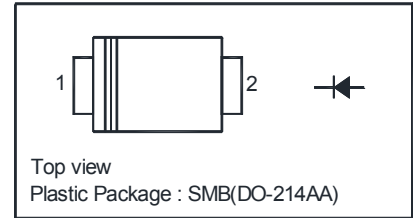
Forward Current - 3 A

Features

- Guard ring protection
- Low forward voltage
- High current capability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Mechanical Data

- **Case:** SMB (DO-214AA) molded plastic body
- **Polarity:** Color band denotes cathode end
- **Mounting position:** Any

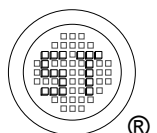
Maximum Ratings and Electrical Characteristics

Ratings at $T_a = 25^\circ\text{C}$ ambient temperature unless otherwise specified.

Parameter	Symbols	SS32B	SS33B	SS34B	SS35B	SS36B	SS38B	SS39B	SS310B	SS315B	SS320B	Units
	Marking	SS32B	SS33B	SS34B	SS35B	SS36B	SS38B	SS39B	SS310B	SS315B	SS320B	-
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	90	100	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3										A
Peak Forward Surge Current, 8.3 ms Single Half- sine -wave Superimposed on rated load (JEDEC method)	I _{FSM}	80										A
Maximum Forward Voltage at 3 A	V _F	0.55			0.75		0.85			0.95		V
Maximum Reverse Current Ta = 25°C at Rated DC Blocking Voltage Ta = 100°C	I _R	500					300					μA
		10					5					mA
Typical Junction Capacitance ¹⁾	C _j	450					350					pF
Thermal Resistance from Juntion to Ambient ²⁾	R _{θJA}	60										°C/W
Operating Junction Temperature Range	T _j	- 55 to + 150										°C
Storage Temperature Range	T _{stg}	- 55 to + 150										°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

²⁾ P.C.B. mounted with 2" X 2" (5 X 5 cm) copper pad areas.



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Electrical characteristic curves

Fig.1 Forward Current Derating Curve

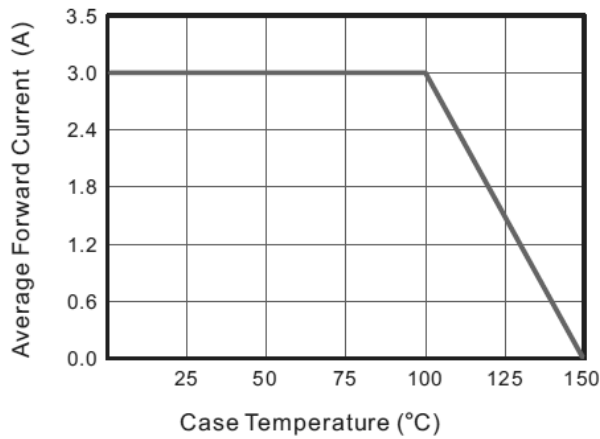


Fig.2 Typical Reverse Characteristics

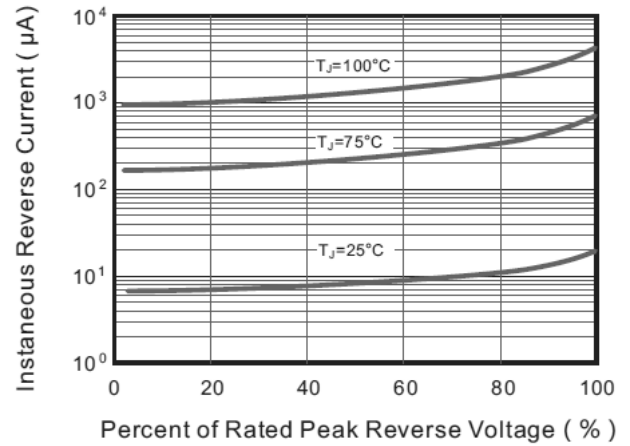


Fig.3 Typical Forward Characteristic

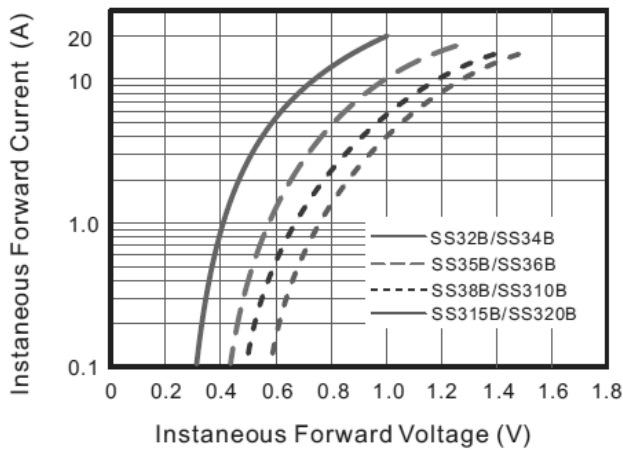


Fig.4 Typical Junction Capacitance

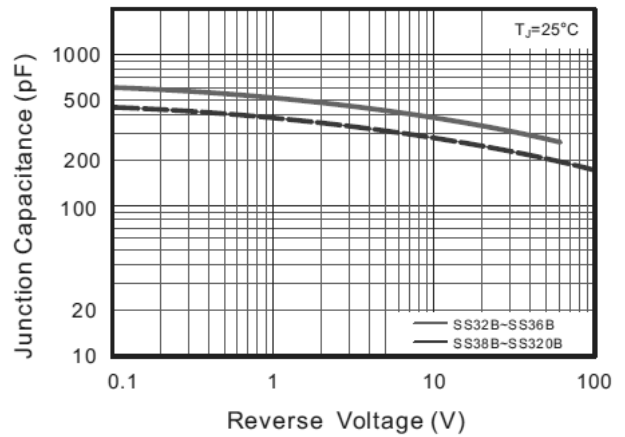


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

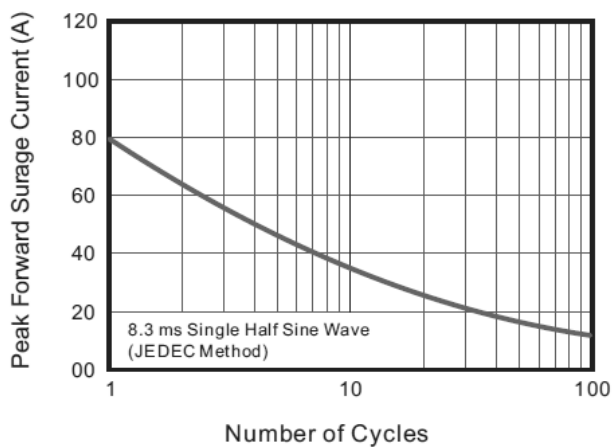
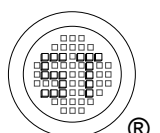
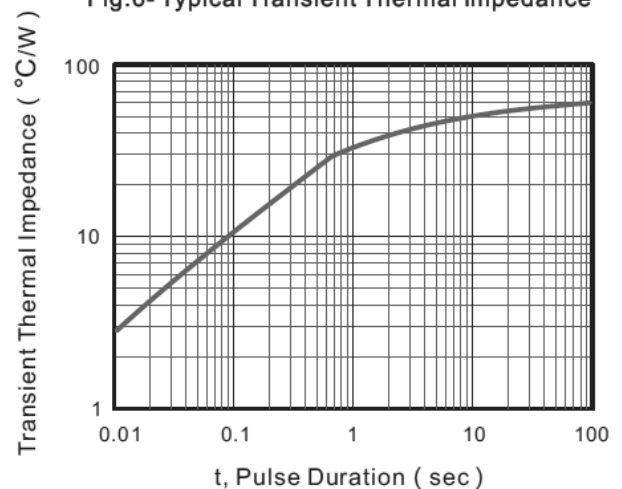


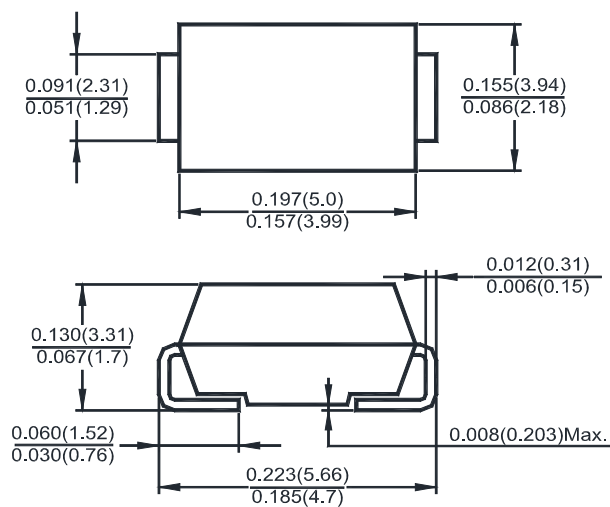
Fig.6- Typical Transient Thermal Impedance



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Package Outline Dimensions in inches (millimeters)

SMB(DO-214AA)



Marking information

" ***** " = Part No.

" III " = Cathode line

Font type: Arial

