

SS32C THRU SS310C

Surface Mount Schottky Barrier Rectifiers

Reverse Voltage - 20 to 100 V

Forward Current - 3 A

Features

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top view
Plastic Package : SMC(DO-214AB)

Mechanical Data

- **Case:** SMC (DO-214AB) molded plastic body
- **Polarity:** color band denotes cathode end
- **Mounting Position:** Any

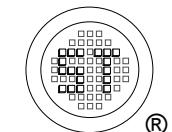
Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	Symbols	SS32C	SS33C	SS34C	SS35C	SS36C	SS38C	SS39C	SS310C	Units				
Marking		SS32C	SS33C	SS34C	SS35C	SS36C	SS38C	SS39C	SS310C	-				
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	V				
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	63	70	V				
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	90	100	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}	100							A					
Maximum Forward Voltage at 3 A	V _F	0.55		0.75		0.85		V						
Maximum DC Reverse Current T _a = 25°C at Rated DC Blocking Voltage T _a = 100°C	I _R	0.5		20		10		mA						
Typical Junction Capacitance ¹⁾	C _j	500		350		pF								
Thermal Resistance from Junction to Ambient ²⁾	R _{θJA}	55							°C/W					
Operating Junction Temperature Range	T _j	- 55 to + 125							°C					
Storage Temperature Range	T _{stg}	- 55 to + 150							°C					

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

²⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



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Electrical characteristic curves

Fig.1 Forward Current Derating Curve

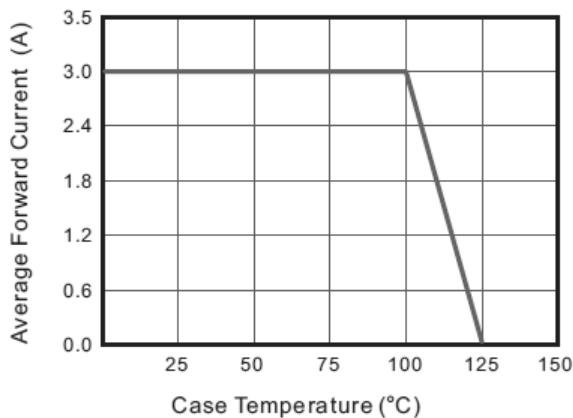


Fig.2 Typical Reverse Characteristics

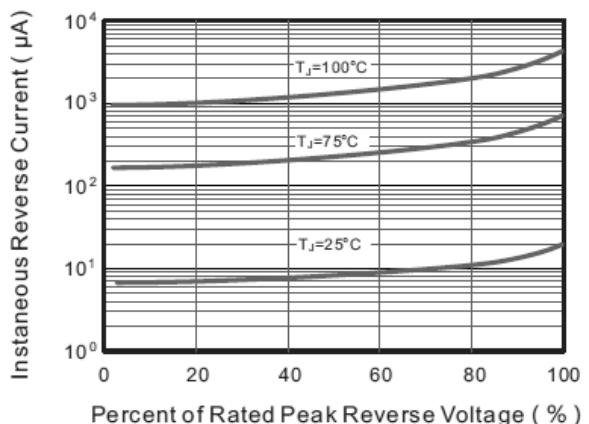


Fig.3 Typical Forward Characteristic

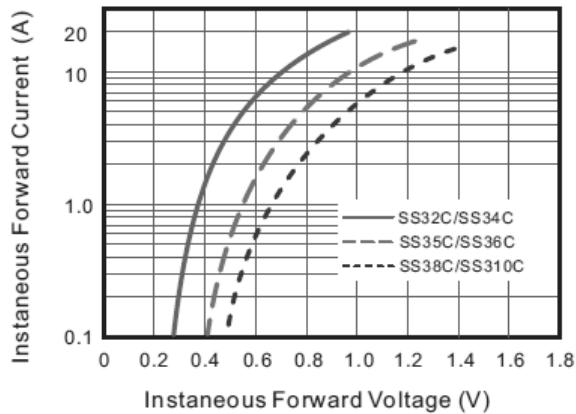


Fig.4 Typical Junction Capacitance

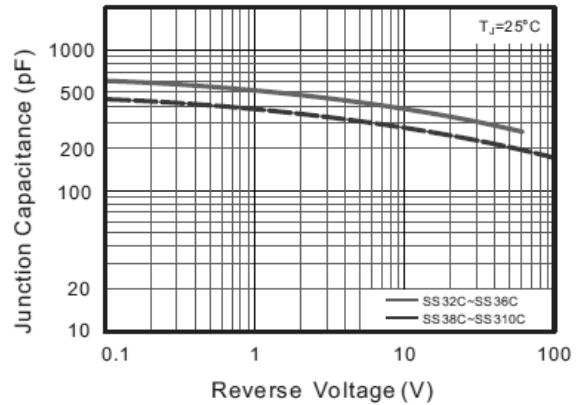


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

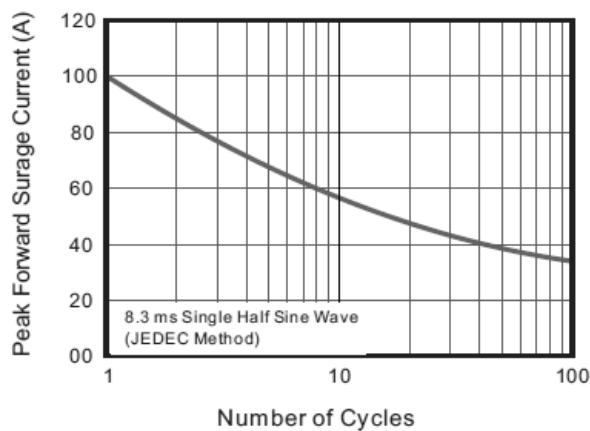
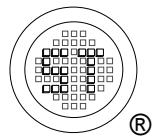
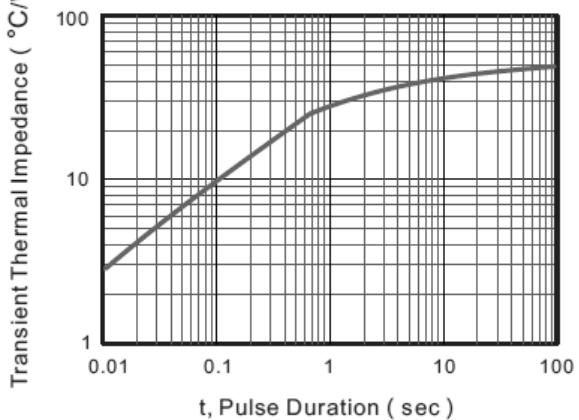


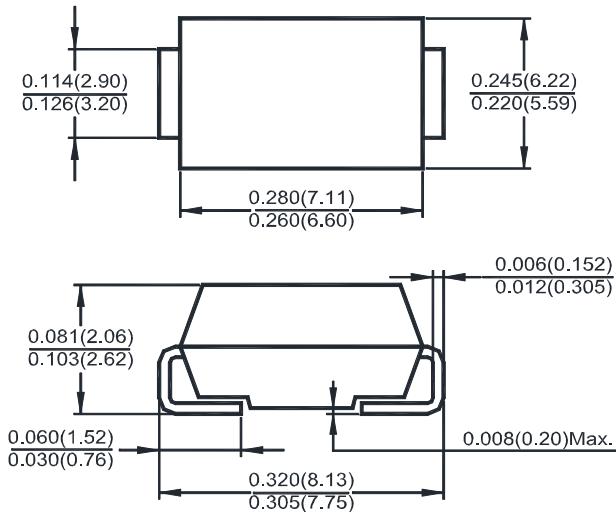
Fig.6- Typical Transient Thermal Impedance



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Package Outline Dimensions in inches (millimeters)

SMC(DO-214AB)



Marking information

" ***** " = Part No.

" III " = Cathode line

Font type: Arial

