

# SS32C THRU SS310C

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 V

Forward Current - 3 A

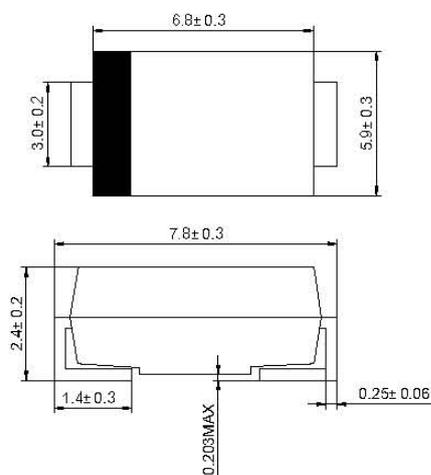
### Features

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

### Mechanical Data

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

SMC (DO-214AB)



Dimensions in millimeters

### 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
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 at $T_T = 100^\circ\text{C}$	$I_{F(AV)}$	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	$V_F$	0.5		0.75		0.85				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	$T_a = 25^\circ\text{C}$		0.5						mA
		$T_a = 100^\circ\text{C}$		20		10				
Typical Junction Capacitance <sup>1)</sup>	$C_j$	250								pF
Thermal Resistance from Junction to Terminal <sup>2)</sup>	$R_{\theta JT}$	10								$^\circ\text{C/W}$
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	50								$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_j$	- 55 to + 125								$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150								$^\circ\text{C}$

<sup>1)</sup> Measured at 1MHz and applied reverse voltage of 4 V DC.

<sup>2)</sup> Thermal Resistance: Junction to terminal, unit mounted on PC board with 5 mm<sup>2</sup> (0.013 mm thick) copper pad as heat sink.



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