

# SS32C THRU SS310C-HAF

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 V

Forward Current - 3 A

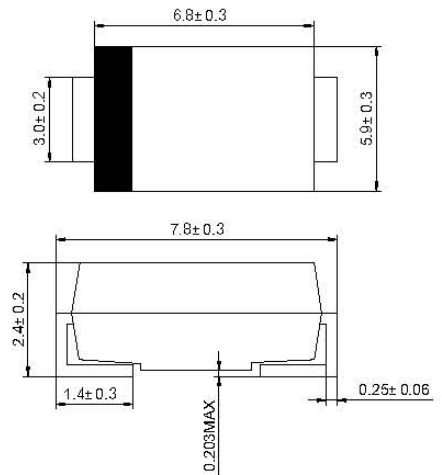
### Features

- Guard ring protection
- Low forward voltage
- High current capability
- Halogen and Antimony Free(HAF), RoHS compliant

### 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.

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 $T_L = 90^\circ\text{C}$	$I_{F(AV)}$	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 <sup>1)</sup>	$V_F$	0.55		0.75		0.85			V	
Maximum DC Reverse Current $T_j = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_j = 125^\circ\text{C}$	$I_R$	0.5								mA
		20				10				
Typical Thermal Resistance	$R_{\theta JL}$	17								°C/W
Operating Junction Temperature Range	$T_j$	- 55 to + 125								°C
Storage Temperature Range	$T_{stg}$	- 55 to + 150								°C

<sup>1)</sup> Pulse test: 300  $\mu\text{s}$  pulse width, 1% duty cycle

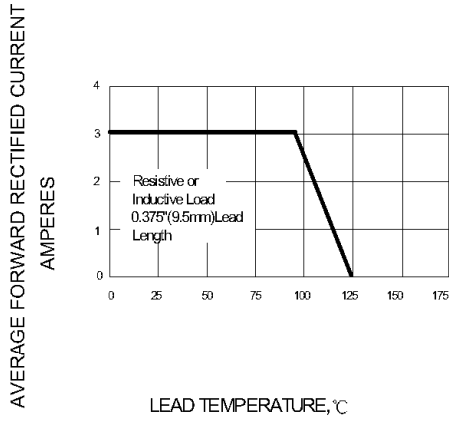
**TOP DYNAMIC**



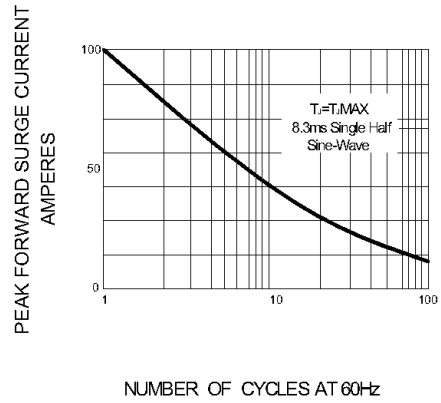
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**FIG.1 – FORWARD DERATING CURVE**



**FIG.2 – PEAK FORWARD SURGE CURRENT**



**FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**

