

# SS32B THRU SS320B

## SCHOTTKY BARRIER RECTIFIERS



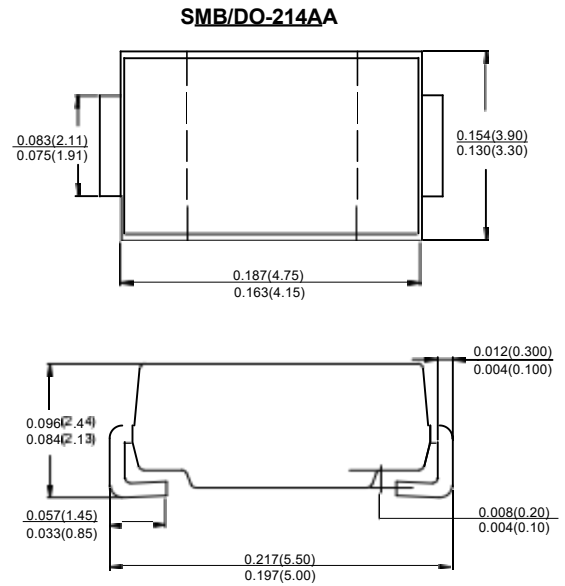
### Features

- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability

Classification Rating 94V-0

### Mechanical Data

- Case: Moeded plastic SMB
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	SS32B	SS33B	SS34B	SS35B	SS36B	SS38B	SS310B	SS315B	SS320B	Unit	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	V	
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V	
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	V	
Average Rectified Output Current @ $T_A = 90^\circ\text{C}$	$I_o$	3.0									A	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	80									A	
Forward Voltage @ $I_F=3.0\text{A}$ (Note 1)	$V_{FM}$	0.5			0.7		0.85		0.90	0.92	V	
Peak Reverse Current @ $T_A = 25^\circ\text{C}$	$I_R$	0.1					0.05					mA
At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$		10					5					
Typical Junction Capacitance	$C_J$	12.0									pF	
Operating Temperature Range(Note2)	$T_J$	-55 to +125									°C	
Storage Temperature Range	$T_{STG}$	-55 to +150									°C	

Note: 1.Pulse Test with PW=300usec,1%Duty Cycle.

2.Mounted on P.C.Board with 5.0 mm<sup>2</sup> (0.13mm thick) copper pad areas.

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Fig. 1 Forward Current Derating Curve

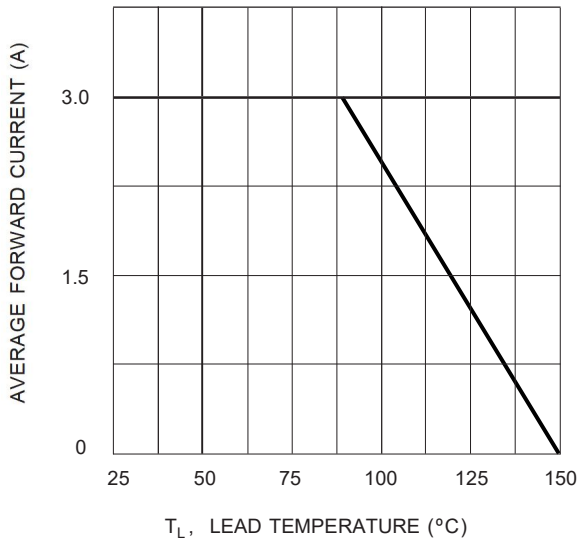


Fig. 2 Typ. Forward Characteristics

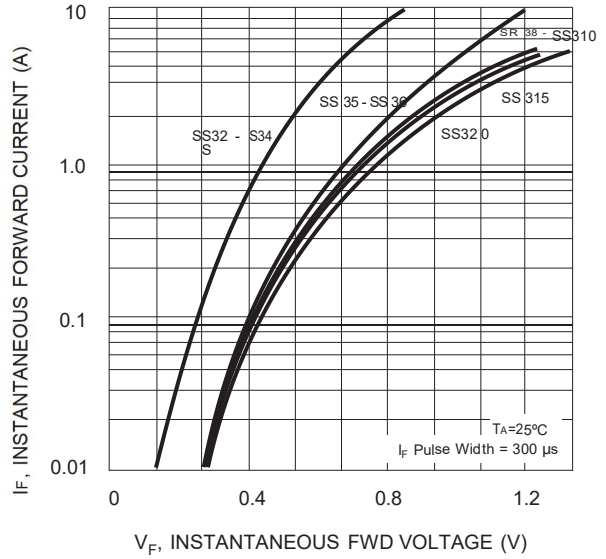


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

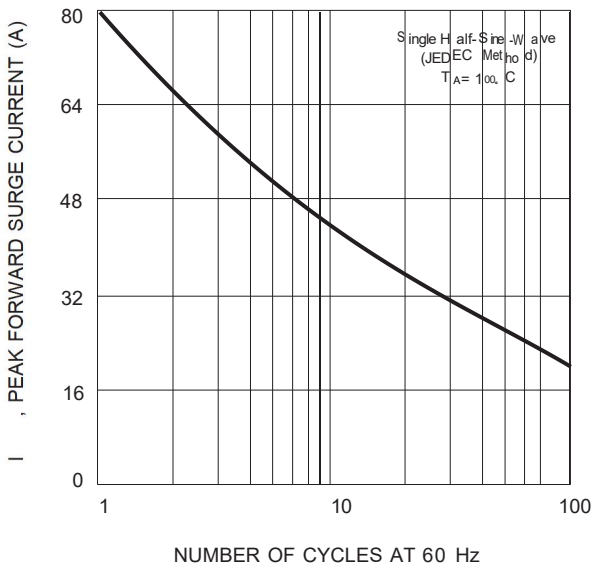


Fig. 4 Typical Junction Capacitance

