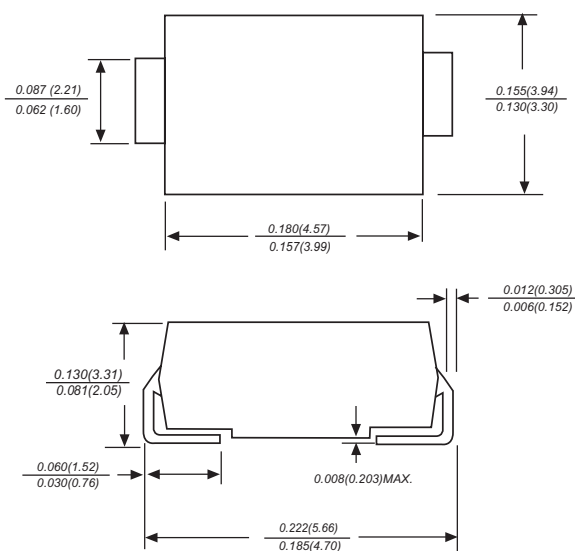


# SS32B THRU SS320B

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 3.0 Amperes

### DO-214AA



Dimensions in inches and (millimeters)

### FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals
- Suffix B mean SMB (DO-214AA) package

### MECHANICAL DATA

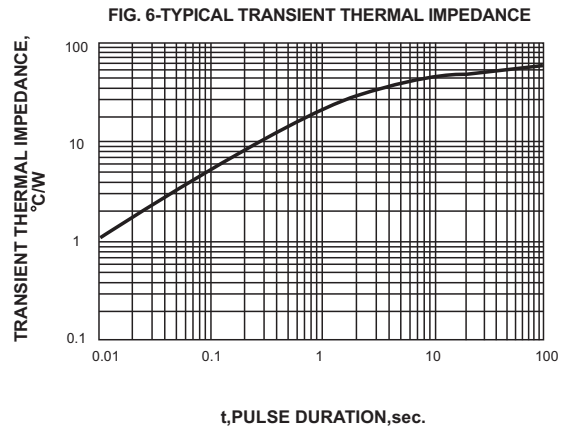
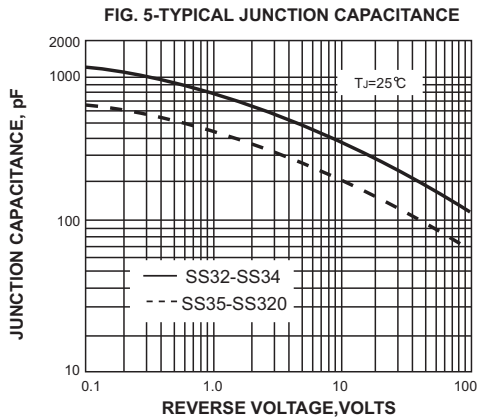
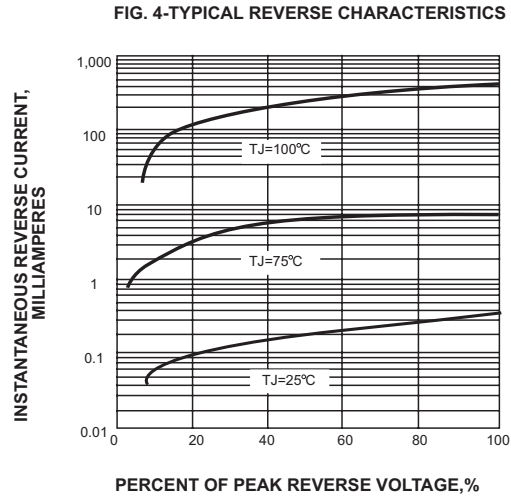
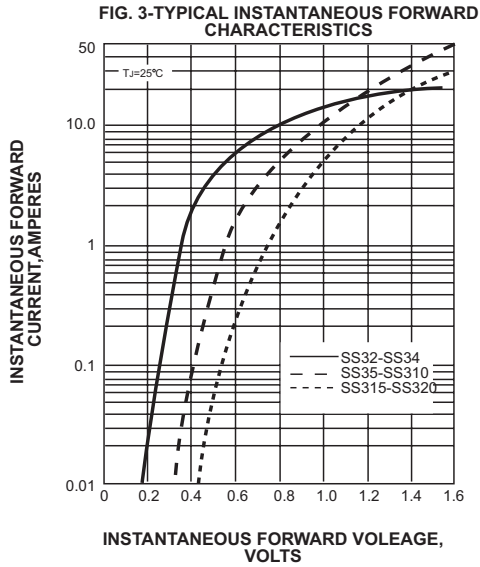
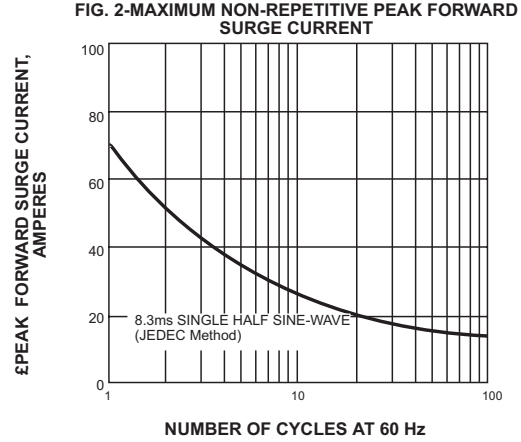
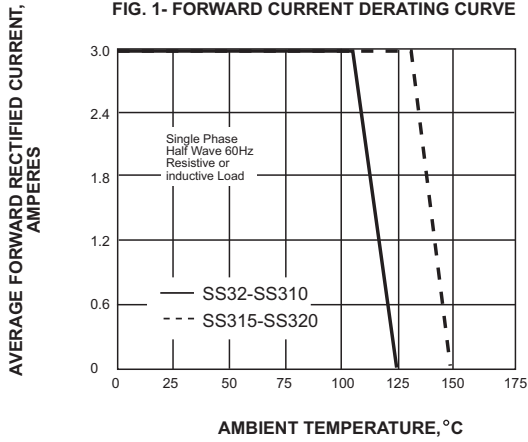
- Case:** JEDEC DO-214AA molded plastic body
- Terminals:** leads solderable per MIL-STD-750, Method 2026
- Polarity:** Color band denotes cathode end
- Mounting Position:** Any

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	VOLTS
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at $T_L$ (see fig.1)	$I_{(AV)}$	3.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	70.0									Amps
Maximum instantaneous forward voltage at 3.0A	$V_F$	0.55			0.70		0.85		0.95		Volts
Maximum DC reverse current at rated DC blocking voltage	$I_R$	20			10				1.0		mA
Typical junction capacitance (NOTE 1)	$C_J$	500			300					pF	
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	55.0			62.0					°C/W	
Operating junction temperature range	$T_J$	-65 to +125			-65 to +150					°C	
Storage temperature range	$T_{STG}$	-65 to +150									°C

**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.  
2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

**RATINGS AND CHARACTERISTIC CURVES SS32 THRU SS320**


Note: Specification is subject to change without further notice. For more details and updates, please visit our website.