



# WEET Technology Company Limited

## Schottky Barrier Rectifiers

SS32B THRU SS310B

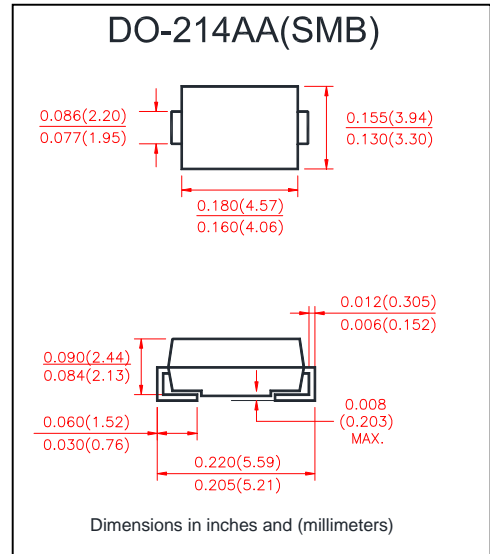
VOLTAGE RANGE 20 to 100 Volts  
CURRENT 3.0 Ampere

### FEATURES

- Low profile surface mount package
- Built-in strain relief
- High switching speed
- Low voltage drop, high efficiency
- For use in low voltage high frequency inverters, Free willing, and polarity protection applications
- Guarding for over voltage protection

### MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end



### 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 derate current by 20%.

	SYMBOLS	SS 32B	SS 33B	SS 34B	SS 35B	SS 36B	SS 38B	SS 39B	SS 310B	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current at $T_L$ see figure 1 $T_L=105^\circ\text{C}$	$I_{(AV)}$	3.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	80								Amps
Maximum Instantaneous Forward Voltage @ 3.0A(Note1)	$V_F$	0.50	0.55	0.70		0.85			Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage per element	$T_A = 25^\circ\text{C}$	0.5								mA
	$T_A = 100^\circ\text{C}$	20			10					
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	55								°C/W
	$R_{\theta JL}$	12								
Operating Junction Temperature	$T_J$	-55 to +125								°C
Storage Temperature Range	$T_{STG}$	-55 to +150								°C

### Notes:

1. Pulse test: 300  $\mu$  s pulse width, 1% duty cycle
2. PCB mounted with 0.55"  $\times$  0.55" (14mm  $\times$  14mm) copper pads



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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

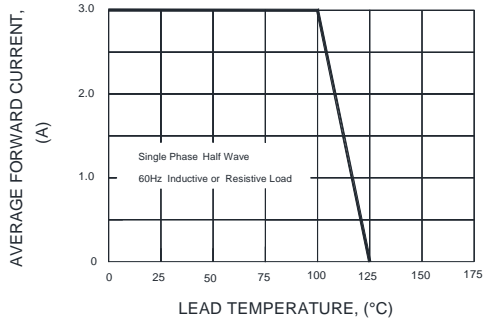


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

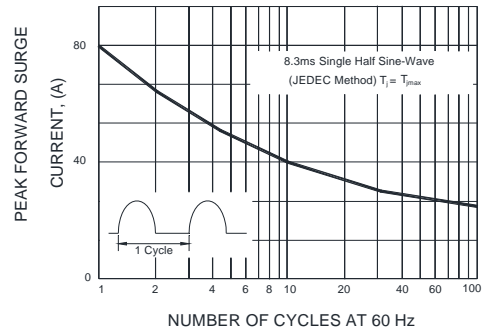


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

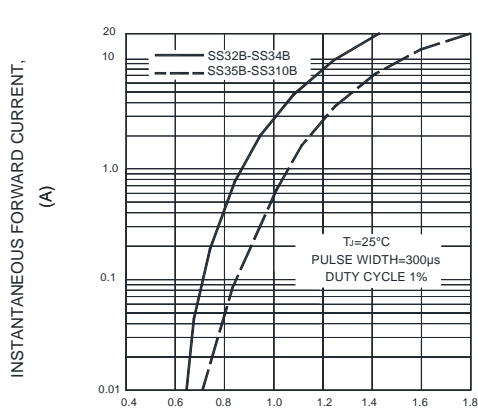
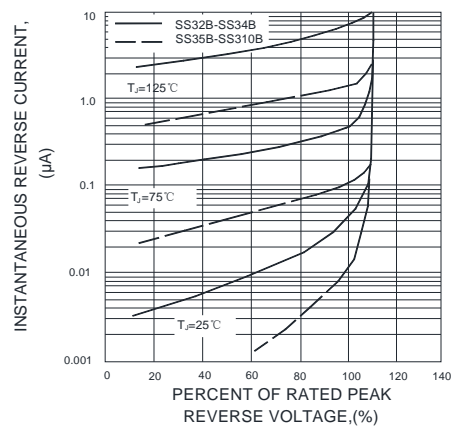
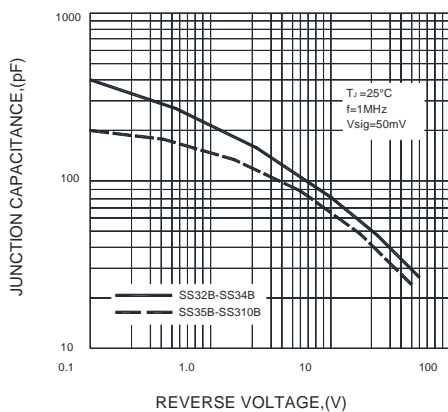


FIG.4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE,(V)

FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.