

SS315B THRU SS320B

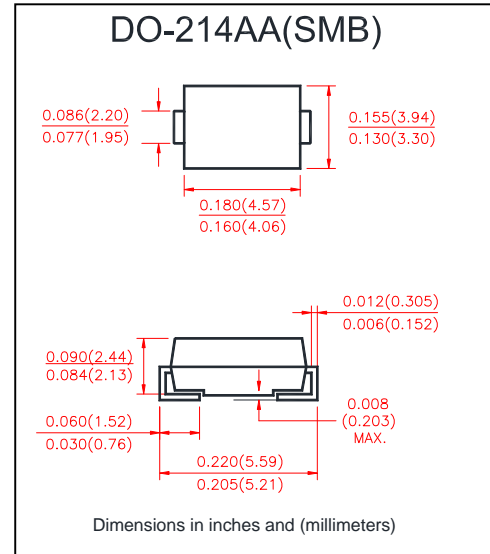
VOLTAGE RANGE 150 to 200 Volts  
CURRENT 3.0 Ampere

### 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
- Guardring 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
- Weight: 0.003 ounce, 0.093 gram



### 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	SS315B	SS320B	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	150	200	Volts
Maximum RMS Voltage	$V_{RMS}$	105	140	Volts
Maximum DC Blocking Voltage	$V_{DC}$	150	200	Volts
Maximum Average Forward Rectified Current at $T_L$ see figure 1 $T_L=105^\circ\text{C}$	$I_{(AV)}$	3		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)	$V_F$	0.85		Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	$I_R$	$T_A = 25^\circ\text{C}$	0.5	mA
		$T_A = 100^\circ\text{C}$	10	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	55		$^\circ\text{C}/\text{W}$
	$R_{\theta JL}$	12		
Operating Junction Temperature	$T_J$	150		$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	(-55 to +150)		$^\circ\text{C}$

#### Notes:

1. Pulse test: 300  $\mu\text{s}$  pulse width, 1% duty cycle
2. PCB mounted with 0.2"  $\times$  0.2" (5.0cm  $\times$  5.0cm) copper pads



# WEE Technology Company Limited

## SCHOTTKY BARRIER RECTIFIER

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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

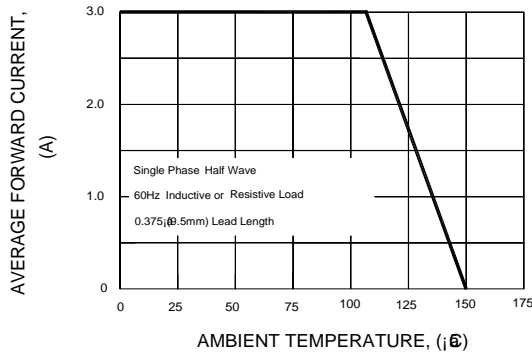


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

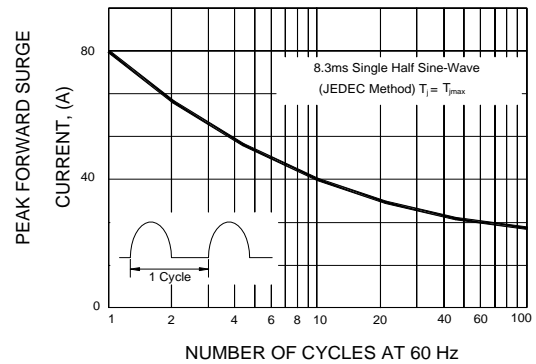


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

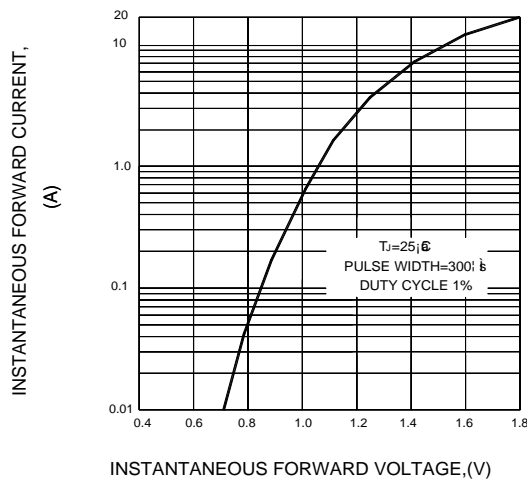


FIG.4-TYPICAL REVERSE CHARACTERISTICS

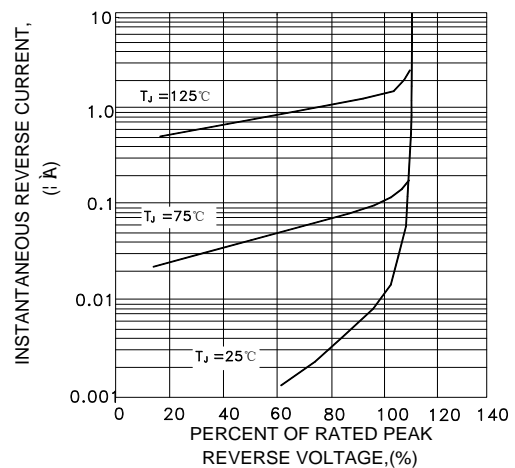
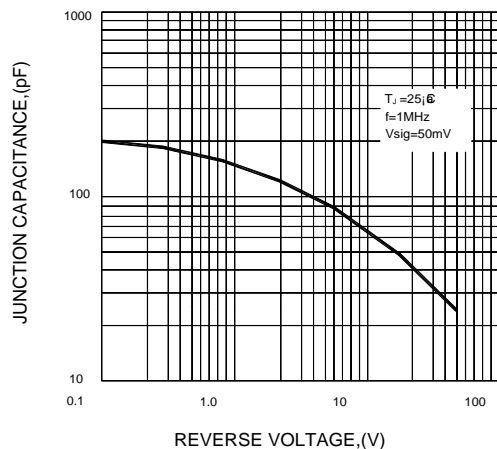


FIG.5-TYPICAL JUNCTION CAPACITANCE



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