



# WEE Technology Company Limited

## Schottky Barrier Rectifiers

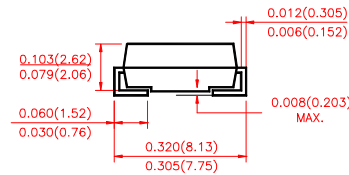
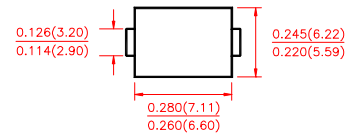
SS5150 THRU SS5200

VOLTAGE RANGE      150 to 200 Volts  
 CURRENT                5.0 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

DO-214AB(SMC)



Dimensions in inches and (millimeters)

### 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: 0.007 ounce, 0.25 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	SS5150	SS5200	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 $T_L=105^\circ C$	$I_{(AV)}$	5		Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	120		Amps
Maximum Instantaneous Forward Voltage @ 3.0A(Note1)	$V_F$	0.85		Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	$I_R$	$T_A = 25^\circ C$	0.3	mA
		$T_A = 100^\circ C$	10	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	55		$^\circ C/W$
	$R_{\theta JL}$	12		
Operating Junction Temperature	$T_J$	150		$^\circ C$
Storage Temperature Range	$T_{STG}$	(-55 to +150)		$^\circ C$

#### Notes:

1. Pulse test: 300  $\mu$  s pulse width, 1% duty cycle
2. P.C.B. with 0.3 $\times$ 0.3" (8.0  $\times$  8.0mm) copper pad areas.



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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

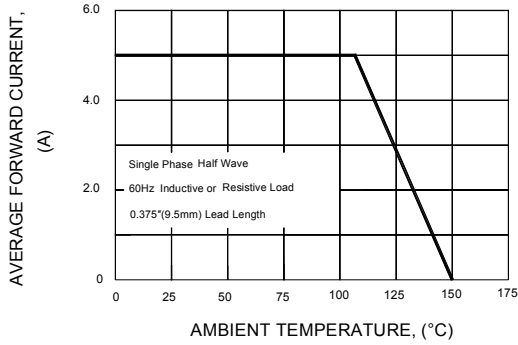


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

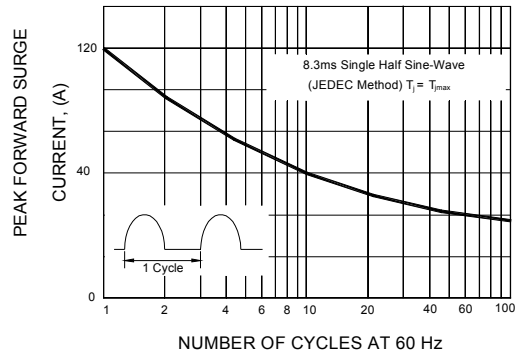


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

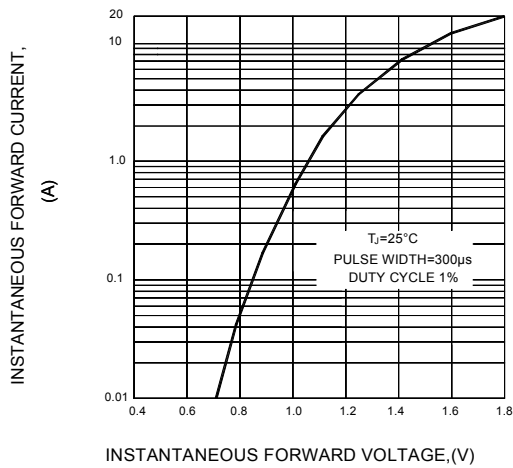


FIG.4-TYPICAL REVERSE CHARACTERISTICS

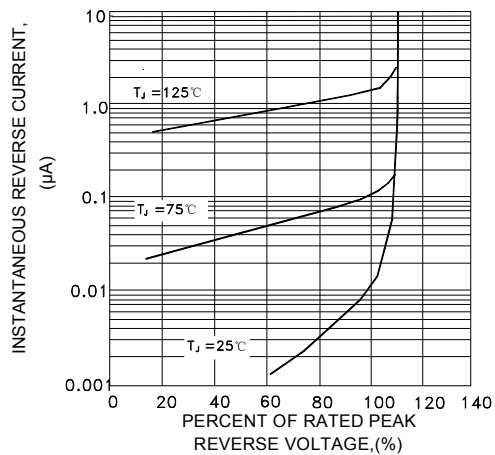
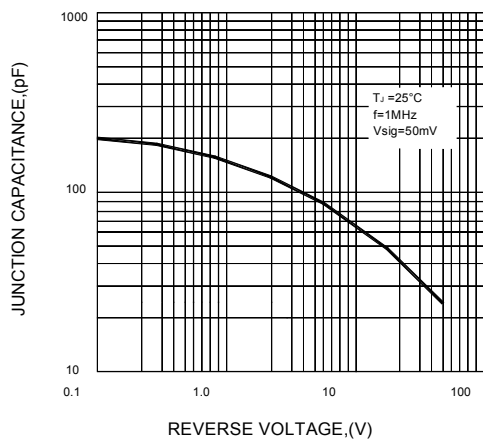


FIG.5-TYPICAL JUNCTION CAPACITANCE



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