SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 20 --- 200 V CURRENT: 3.0A

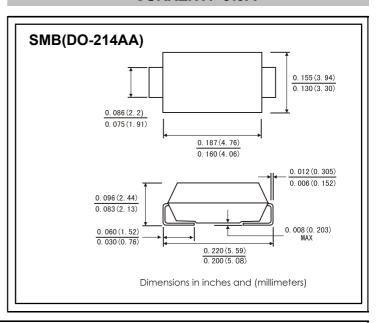
FEATURES

- Metal-semiconductor junction with guard ring

- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications

MECHANICAL DATA

- ◇Polarity: Color band denotes cathode end
- ♦ Weight: 0.003 ounces, 0.093 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		Symbols	SS 32 B	SS 33B	SS 34B	SS 35 B	SS 36 B	SS 38 B	SS 310 B	SS 315 B	SS 320 B	Volts
Maximum repetitive peak reverse voltage		Vrrm	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS voltage		Vrms	14	21	28	35	42	57	71	105	140	Volts
Maximum DC blocking voltage		VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length (See Fig.1)		I(AV)	3.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		İfsm	80.0									Amps
Maximum instantaneous forward voltage at 3.0 A(Note 1)		VF		0.55).75	0.85		0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _A =25°C	1-	0.2									_
	T _A =100°C	lr	20			10						mA
Typical junction capacitance(Note 3)		CJ	250 160						РF			
Typical thermal resistance (Note 2)		RθJA RθJL	55.0 17.0									°C/W
Operating junction temperature range		TJ	-65 to+150									°C
Storage temperature range		Tstg	-65 to+150									°C

NOTE: 1. Pulse test:300us pulse width,1% duty cycle.

- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to ambient

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FIG.1-FORWARD CURRENT DERATING CURVE

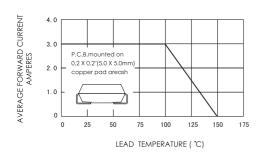


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

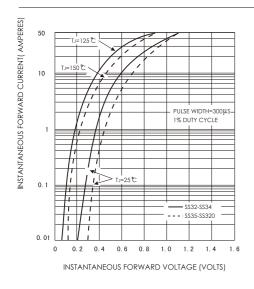


FIG.5-TYPICAL JUNCTION CAPACITANCE

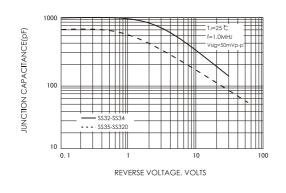


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

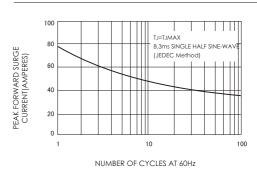


FIG.4-TYPICAL REVERSE CHARACTERISTICS

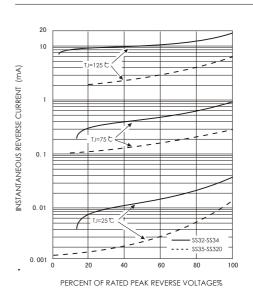
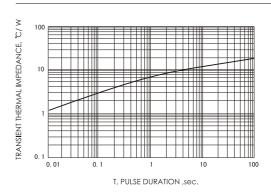


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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