SCHOTTKY BARRIER RECTIFIER

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

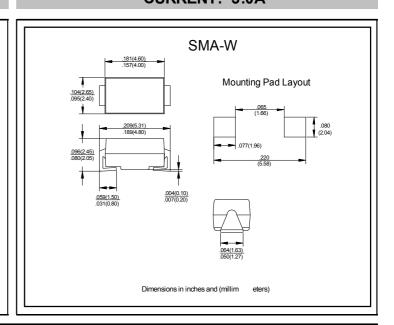
FEATURES

- Metal-semiconductor junction with guard ring

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

MECHANICAL DATA

- MIL-STD-750, Method 2026
- ◇Polarity: Color band denotes cathode end
- ♦ Weight: 0.002 ounces, 0.064 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 A	SS 33 A	SS 34 A	SS 35 A	SS 36 A	SS 38 A	SS 310 A	SS 315	SS 320 A	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 currer 0.375"(9.5mm) lead length (See Fig.1)	l(AV)	3.0							Amps		
Peak forward surge current 8.3ms single ha sine-wave superimposed on rated load (JEDEC method)	lf IFSM	80.0								Amps	
Maximum instantaneous forward voltage at 3.0 A(Note 1)	VF	0.55			C	0.75 0.85		35	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1) $T_A = 25^{\circ}C$	— R	0.2							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+125			-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

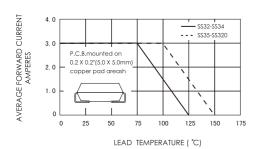


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

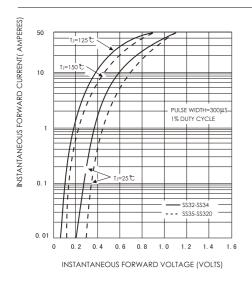


FIG.5-TYPICAL JUNCTION CAPACITANCE

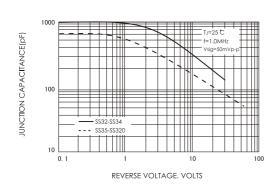


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

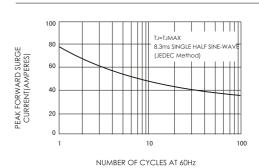


FIG.4-TYPICAL REVERSE CHARACTERISTICS

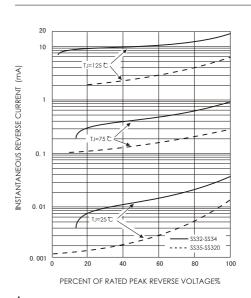
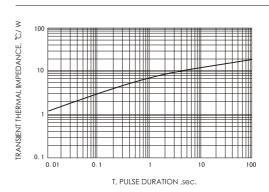


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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