

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 20 --- 200 V

CURRENT: 2.0A

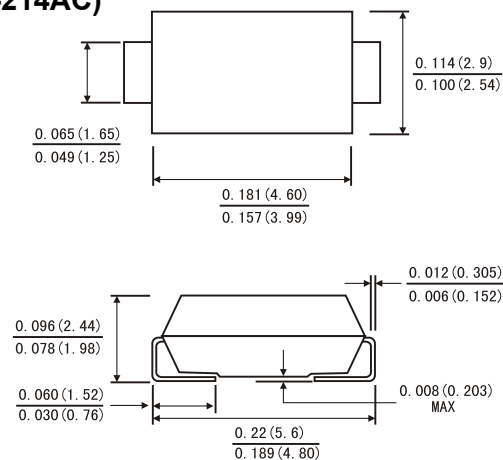
FEATURES

- ◇ Metal-semiconductor junction with guard ring
- ◇ Epitaxial construction
- ◇ Low forward voltage drop, low switching losses
- ◇ High surge capability
- ◇ For use in low voltage, high frequency inverters free wheeling, and polarity protection applications
- ◇ The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- ◇ Case: JEDEC SMA(DO-214AC), molded plastic
- ◇ Terminals: Axial lead, solderable per MIL-STD-750, Method 2026
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: 0.002 ounces, 0.064 grams
- ◇ Mounting position: Any

SMA(DO-214AC)



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%.

	V _{RRM}	SS 22A	SS 23A	SS 24A	SS 25A	SS 26A	SS 28A	SS 210A	SS 215A	SS 220A	Volts	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts	
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	57	71	105	140	Volts	
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts	
Maximum average forward rectified current (See Fig. 1)	I _(AV)	2.0									Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50.0									Amps	
Maximum instantaneous forward voltage at 2.0 A(note 1)	V _F	0.55			0.75		0.85		0.90	0.95	Volts	
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _A =25°C	I _R	0.2									mA
	T _A =100°C		10.0									
Typical thermal resistance (Note 2)	R _{JA} R _{JL}	88.0 28.0									°C/W	
Operating junction temperature range	T _J	-65 to+150									°C	
Storage temperature range	T _{STG}	-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

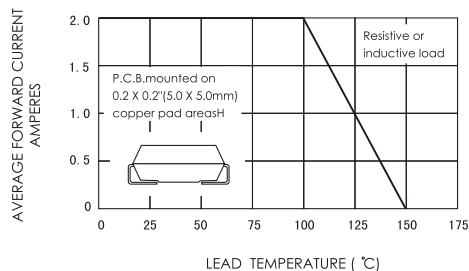


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

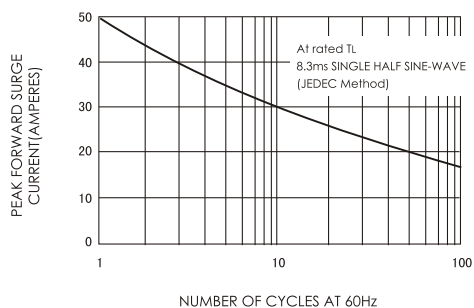


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

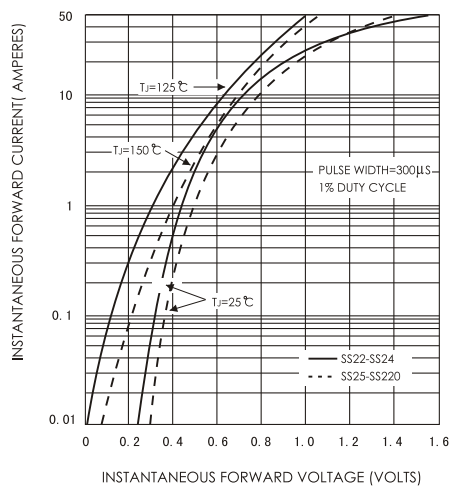


FIG.4-TYPICAL REVERSE CHARACTERISTICS

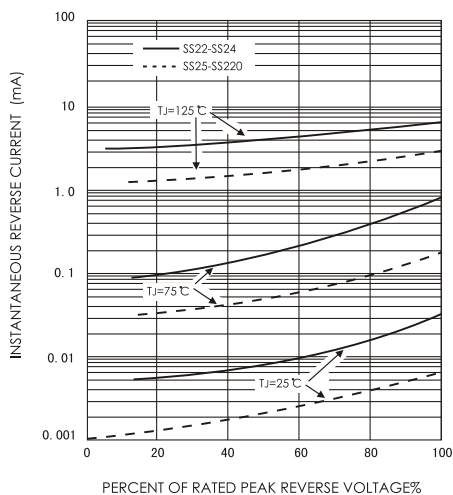


FIG.5-TYPICAL JUNCTION CAPACITANCE

