



SS22 thru SS210

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts

Forward Current - 2.0Amperes

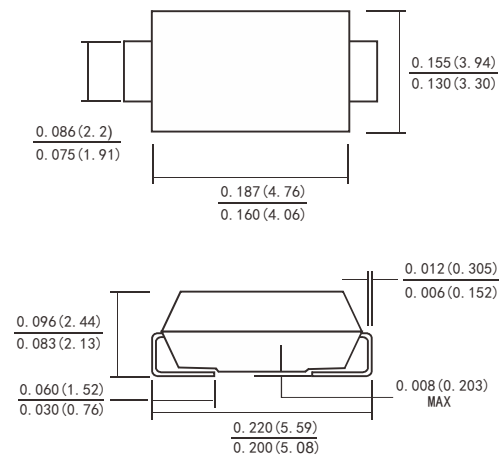
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Built-in strain relief
- For surface mounted applications
- Low profile package
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling , and polarity protection applications
- High temperature soldering guaranteed:260 C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and
- WEEE 2002/96/EC

MECHANICAL DATA

- *Case:* JEDEC SMB(DO-214AA) molded plastic body
- *Terminals:* solder plated ,solderable per MIL-STD-750,method 2026
- *Polarity:* color band denotes cathode end
- *Weight:* 0.003ounce,0.093 gram

SMB(DO-214AA)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25 °C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

		VRRM	SS 22	SS 23	SS 24	SS 25	SS 26	SS 28	SS 210	Volts
Maximum repetitive peak reverse voltage		VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS voltage		VRMS	14	21	28	35	42	56	70	Volts
Maximum DC blocking voltage		VDC	20	30	40	50	60	80	100	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)		IFSM	50.0							Amps
Maximum instantaneous forward voltage at 2.0 A(note 1)		VF	0.55			0.75		0.85		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _a =25°C	IR	0.2							mA
	T _a =100°C		10.0							
Typical thermal resistance (Note 2)		R JA R JL	75.0 17.0							°C/W
Operating junction temperature range		TJ	-65 to+125			-65 to+150				°C
Storage temperature range		TSTG	-65 to+150							°C

Notes: 1.Pulse test: 300 μs pulse width,1% duty cycle
2. P.C.B. mounted with 0.2 X 0.2"(5.0 X 5.0mm)copper pad areas

Rating and Characteristic Curves ($T_A = 25^{\circ}\text{C}$ Unless otherwise noted)
SS22 thru SS210

FIG.1-FORWARD CURRENT DERATING CURVE

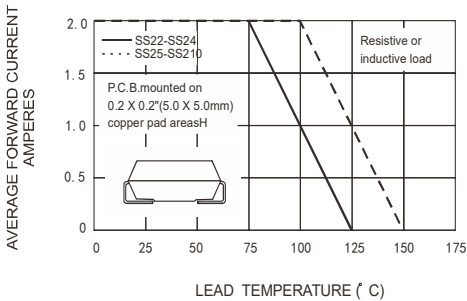


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

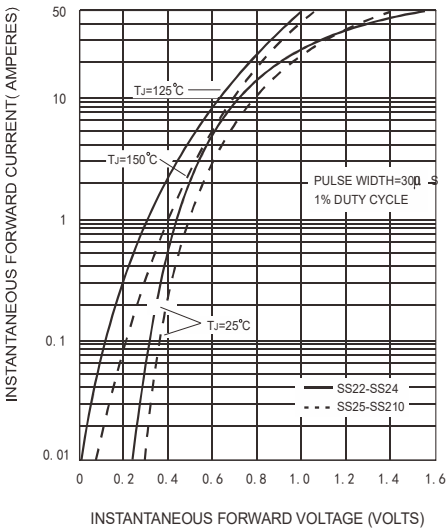


FIG.5-TYPICAL JUNCTION CAPACITANCE

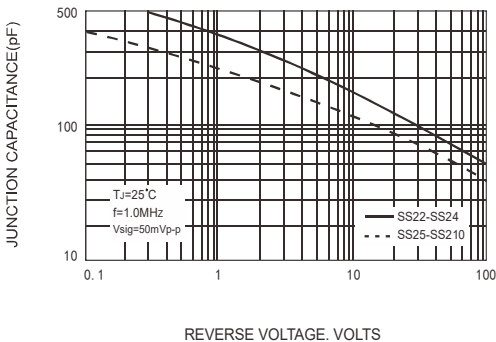


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

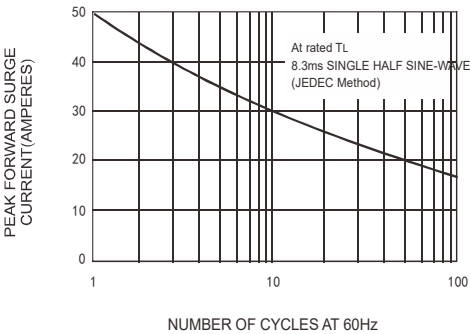


FIG.4-TYPICAL REVERSE CHARACTERISTICS

