SS32 THRU SS3200

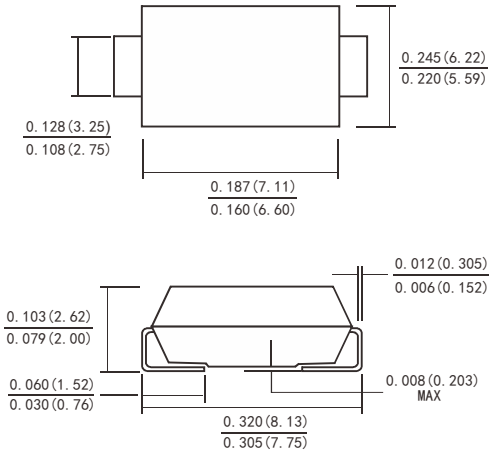
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts
Forward Current - 3.0Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- 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

SMC(DO-214AB)



Dimensions in inches and (millimeters)

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*: 0.007ounce,0.2 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

			SS 32	SS 33	SS 34	SS 36	SS 3100	SS 3150	SS 3200	
		V_{RRM}								Volts
Maximum repetitive peak reverse voltage		V_{RRM}	20	30	40	60	100	150	200	Volts
Maximum RMS voltage		V_{RMS}	14	21	28	42	70	100	140	Volts
Maximum DC blocking voltage		V_{DC}	20	30	40	60	100	150	200	Volts
Maximum average forward rectified current (See Fig. 1)		$I_{(AV)}$	3.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	100.0							Amps
Maximum instantaneous forward voltage at 3.0 A(note 1)		V_F	0.55			0.65	0.80	0.85		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T_A =25°C	I_R	0.05			.	0.002			mA
	T_A =100°C		10.0				2.0			
Typical thermal resistance (Note 2)		$R_{\theta JA}$ $R_{\theta JL}$	70.0 17.0							℃/W
Operating junction temperature range		T_J	-65 to+125			-65 to+150				℃
Storage temperature range		T_{STG}	-65 to+150							℃

Notes: 1.Pulse test: 300 μs pulse width,1% duty cycle

2. P.C.B. mounted with 0.55 X 0.55"(14.0 X 14.0mm)copper pad areas
3. Measured at 1MHz and reverse voltage of 4.0volts

Rating and Characteristic Curves (TA = 25°C Unless otherwise noted)

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FIG.1-FORWARD CURRENT DERATING CURVE

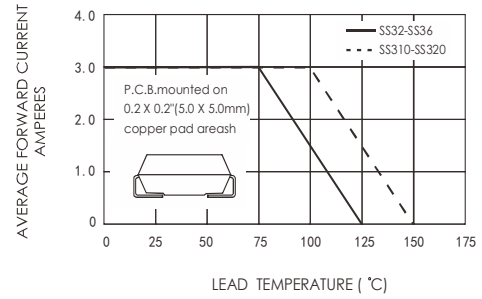

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

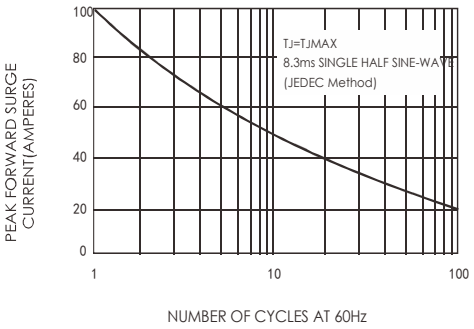

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

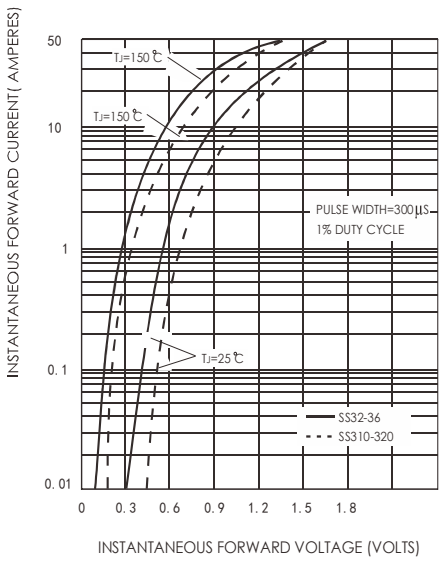

FIG.4-TYPICAL REVERSE CHARACTERISTICS

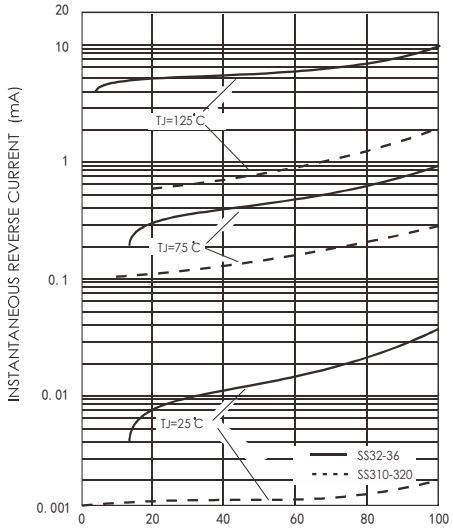

FIG.5-TYPICAL JUNCTION CAPACITANCE

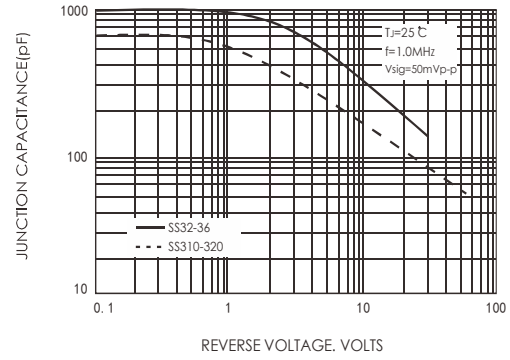

FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE