SS3200

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 200 Volts

Forward Current - 3.0 Amperes

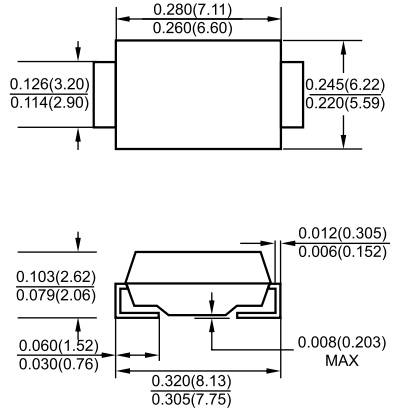
Features

- ✧ *The plastic package carries Underwriters Laboratory Flammability Classification 94V-0*
- ✧ *For surface mounted applications*
- ✧ *Metal silicon junction,majority carrier conduction*
- ✧ *Low power loss,high efficiency*
- ✧ *Built-in strain relief,ideal for automated placement*
- ✧ *High forward surge current capability*
- ✧ *High temperature soldering guaranteed: 250°C/10 seconds at terminals*

Mechanical Data

- ✧ **Case**: *JEDEC* DO-214AB *molded plastic body*
- ✧ **Terminals**: *leads solderable per MIL-STD-750, Method 2026*
- ✧ **Polarity**: *Color band denotes cathode end*
- ✧ **Mounting Position**: *Any*
- ✧ **Weight**:*0.005 ounce, 0.138 grams*

SMC/DO-214AB



Dimensions in inches and(millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

	SYMBOLS	SS3200	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	*200*	*VOLTS*
Maximum RMS voltage	V_{RMS}	*140*	*VOLTS*
Maximum DC blocking voltage	V_{DC}	*200*	*VOLTS*
Maximum average forward rectified current at TL(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 3.0A	V_F	*0.84*	*Volts*
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	I_R	*1.0 10*	*mA*
Typical junction capacitance (NOTE 1)	C_J	*300*	*pF*
Typical thermal resistance (NOTE 2)	R_{qJA}	*62.0*	*°C/W*
Operating junction temperature range	T_J,	*-65 to +150*	*°C*
Storage temperature range	T_{STG}	*-65 to +150*	*°C*

Note:*1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.*
2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

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RATINGS AND CHARACTERISTIC CURVES SS3200

FIG. 1- FORWARD CURRENT DERATING CURVE

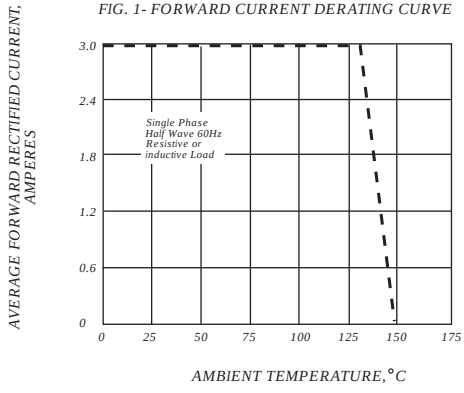


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

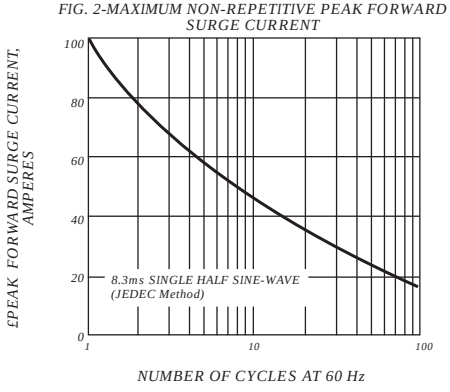


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

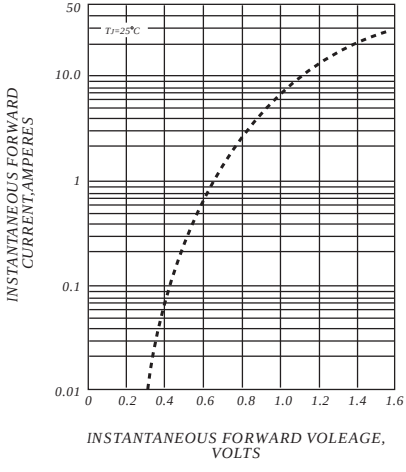


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

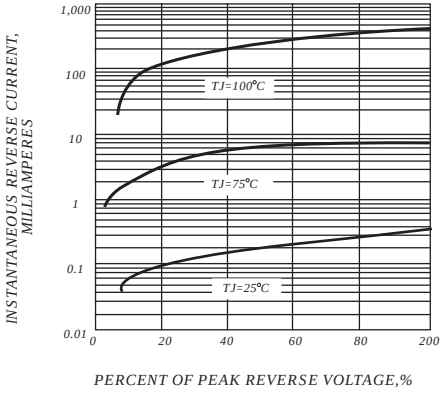


FIG. 5-TYPICAL JUNCTION CAPACITANCE

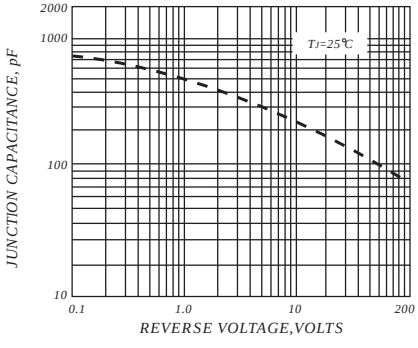
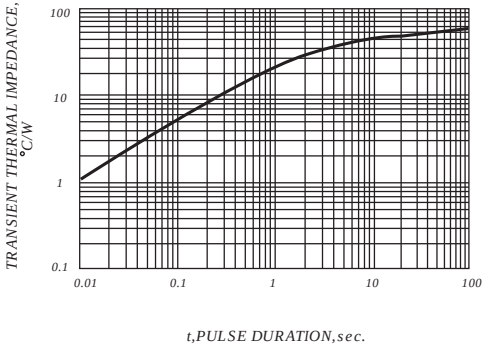


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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