

SS32 thru SS310
Surface Mount Schottky Barrier Rectifiers

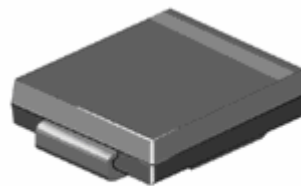
FEATURES

- For surface mounted applications
- Metal-Semiconductor junction with guarding
- Epitaxial construction
- Very low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

MECHANICAL DATA

- Case: Molded Plastic
- Polarity: Indicated by cathode band

SMA/SMB/SMC



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS(25°C)

Parameter	Symbol	SS32	SS33	SS34	SS35	SS36	SS38	SS 310	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	I_{FSM}	80							A
Maximum Instantaneous Forward Voltage @3.0 A	V_F	0.45	0.55	0.60	0.70		0.85		V
Maximum DC Reverse Current TA=25°C At Rated DC Blocking Voltage TA=100°C	I_R	1.0 20							mA
Thermal resistance from junction to lead	$R_{\theta JL}$	10							°C /W
Thermal resistance from junction to ambient	$R_{\theta JA}$	50							°C /W
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							°C

RATING AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

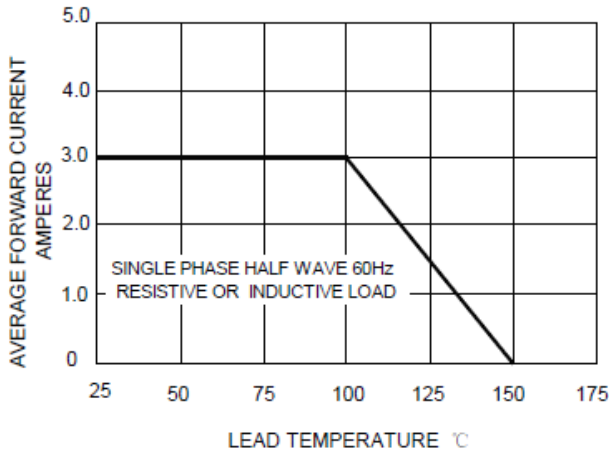


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

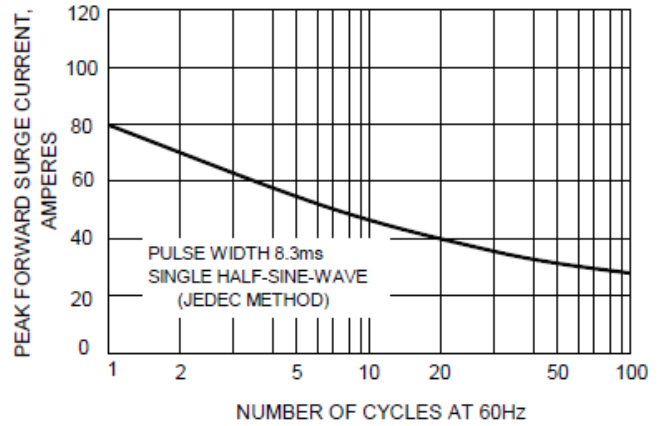


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

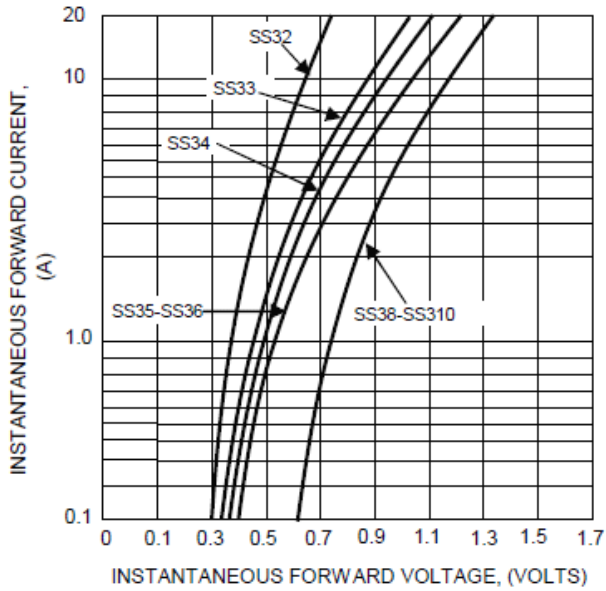


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

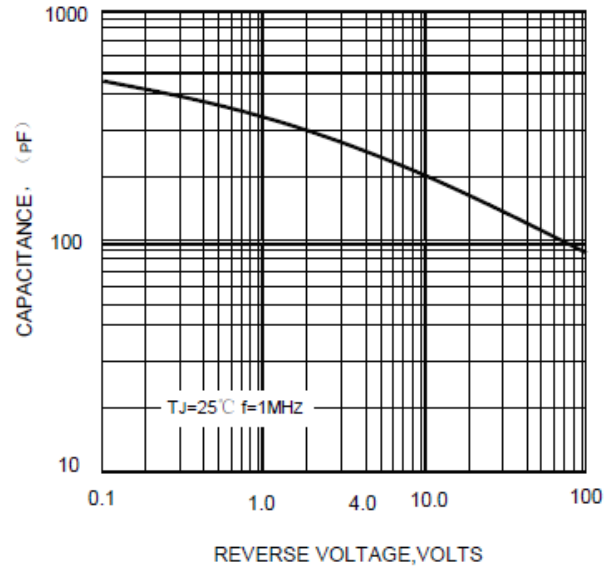
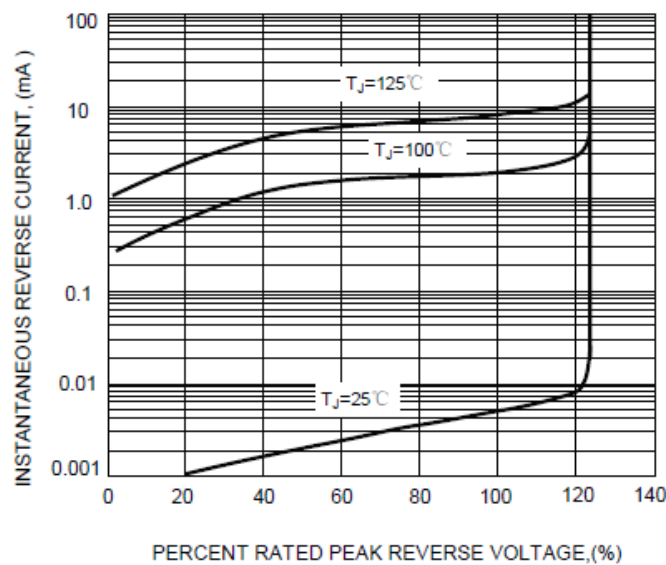
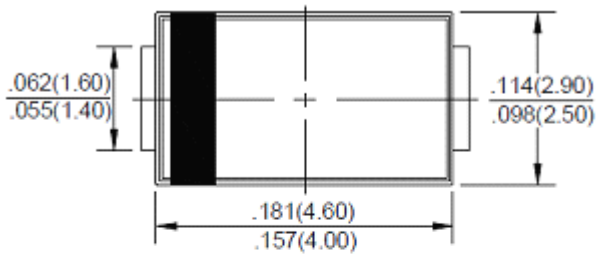


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

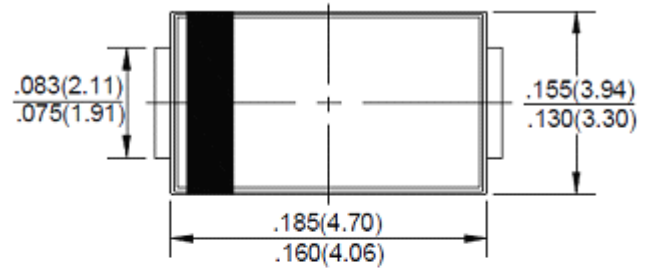


PACKAGE: Dimensions in inches and (millimeter)

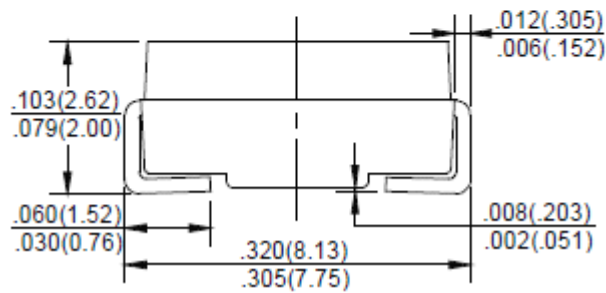
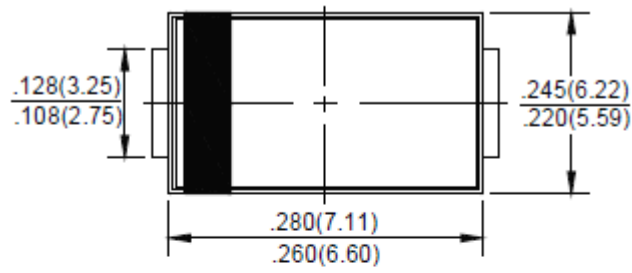
SMA



SMB



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