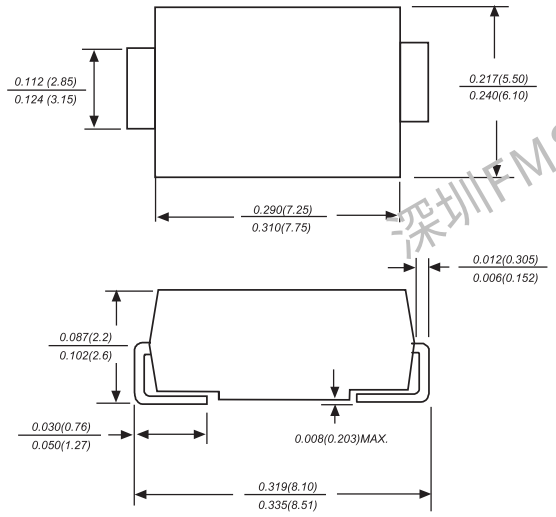
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Formosa MS

SS82 THRU SS810

Reverse Voltage - *20 to 100 Volts* Forward Current - *8.0 Amperes*

SMC/DO-214AB



Dimensions in inches and (millimeters)

深圳FMS Kinter 0755-83298058

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250℃,0.25″(6.35mm) from case for 10 seconds

MECHANICAL DATA

Case: JEDEC DO-214AB molded plastic body
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight:0.008 ounce, 0.217 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	SS 82	SS 83	SS 84	SS 85	SS 86	SS 87	SS 88	SS 89	SS 810	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	VOLTS
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	49	56	63	70	VOLTS
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	70	80	90	100	VOLTS
Maximum average forward rectified current (see fig.1)	$I_{(AV)}$	8.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150.0									Amps
Maximum instantaneous forward voltage at 8.0A	V_F	0.55			0.7		0.85				Volts
Maximum DC reverse current T_A=25℃	I_R	1.0									mA
at rated DC blocking voltage T_A=100℃		15.0			50.0						
Typical junction capacitance (NOTE 1)	C_J	550			450						pF
Typical thermal resistance (NOTE 2)	$R_{\theta JC}$	2.0									°C/W
Operating junction temperature range	T_J	-65 to +125			-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 0.6x0.6″(16x16mm) copper pad areas

FIG. 1- FORWARD CURRENT DERATING CURVE

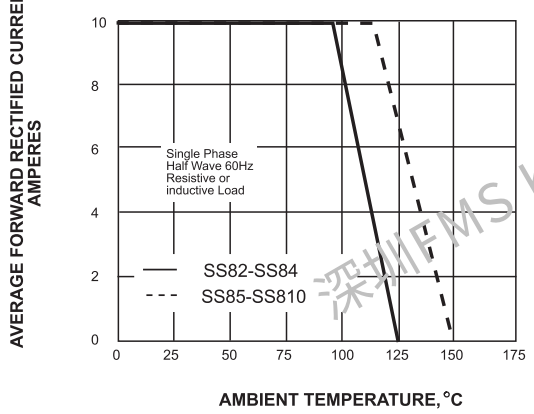


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

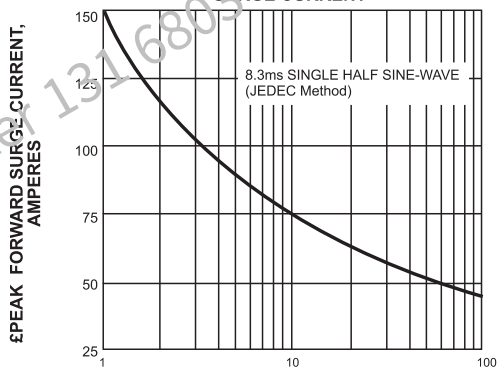


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

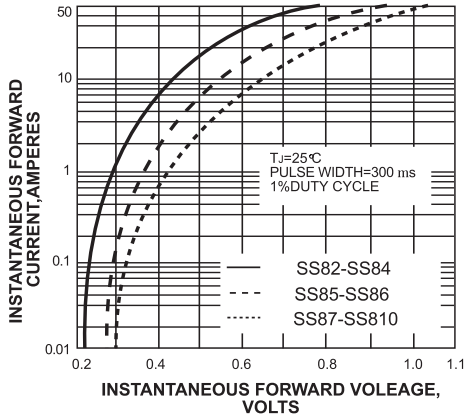


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

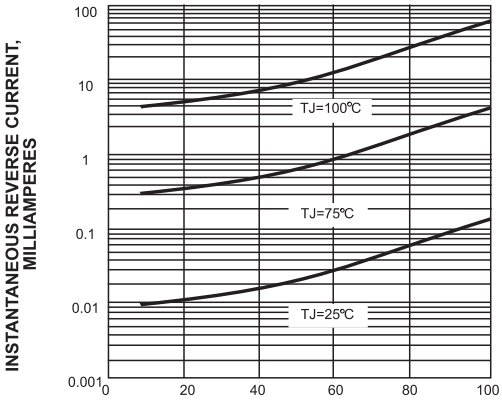


FIG. 5-TYPICAL JUNCTION CAPACITANCE

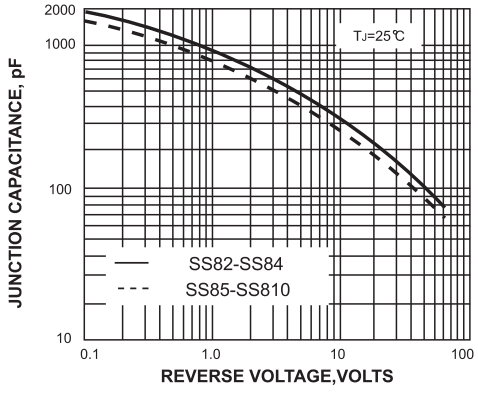
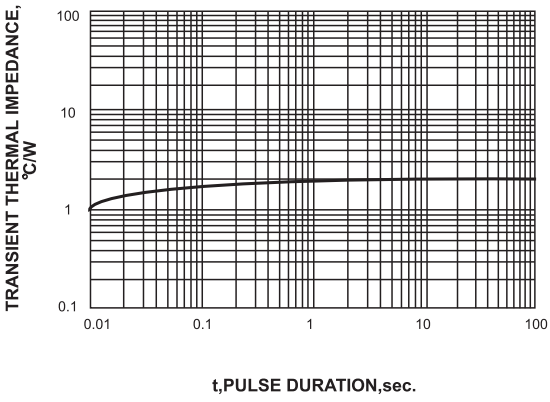


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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