

SS52~SS510

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20 to 100 Volt **CURRENT** 5 Ampere

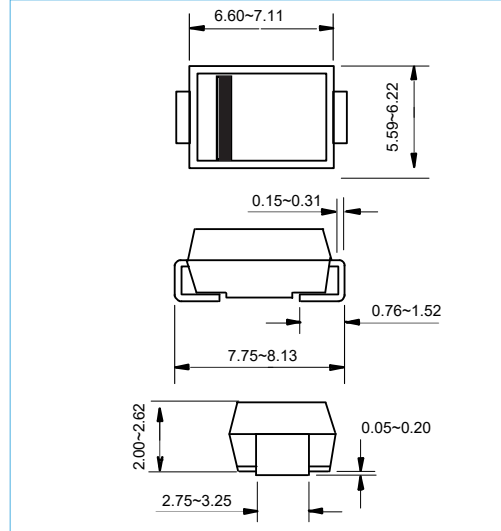
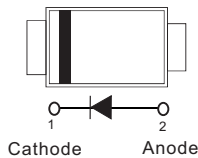
SMC / DO-214AB Unit:mm

FEATURES

- Low power loss, High efficiency
- High surge capacity
- High current capacity, low V_F
- Lead free in compliance with EU RoHS 2.0

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	SS52	SS53	SS54	SS55	SS56	SS58	SS510	UNITS
Maximum Recurrent 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 Current	I _{F(AV)}	5							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100							A
Maximum Forward Voltage at 5 A	V _F	0.55			0.75		0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _j =25°C T _j =100°C	I _R	1.0 20							mA
Thermal Resistance	R _{θJA} R _{θJL}	55 16							°C / W
Typical Junction Capacitance c _e	C _J	200							pF
Operating Junction Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

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RATING AND CHARACTERISTIC CURVES

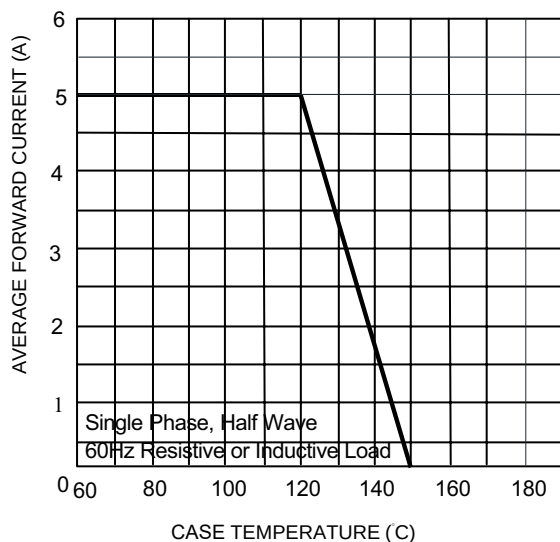


FIG.1 FORWARD CURRENT DERATING CURVE

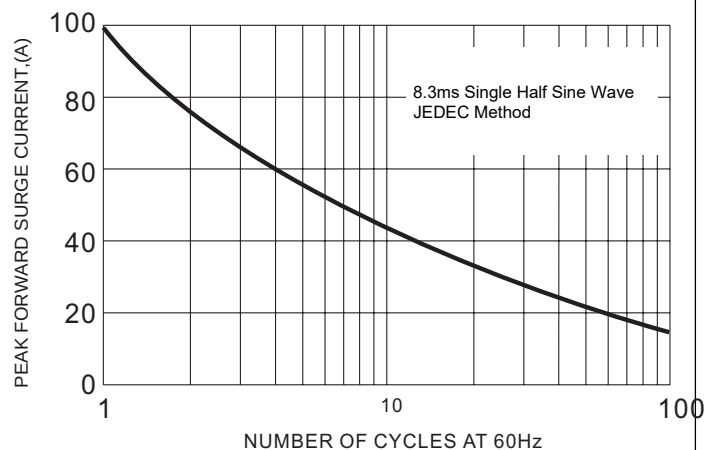


FIG.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

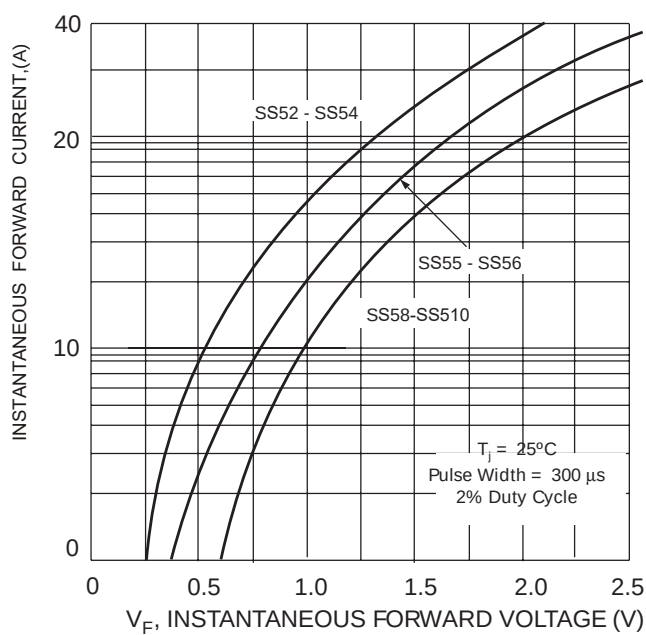


FIG.3 TYPICAL FORWARD CHARACTERISTICS

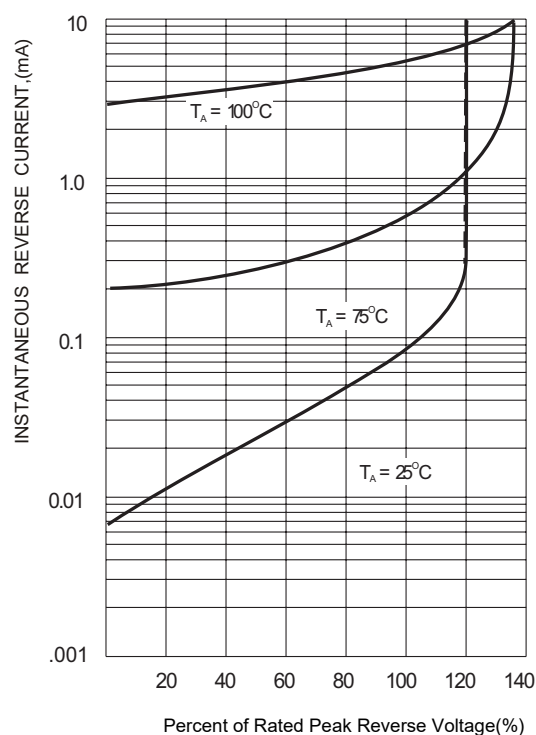


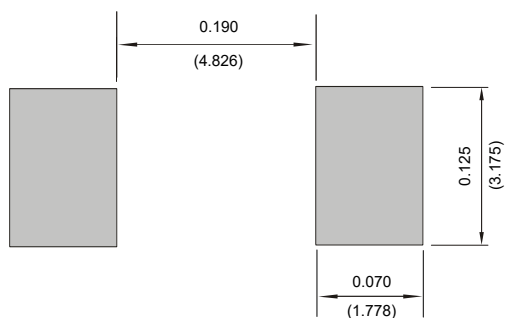
FIG.4 TYPICAL REVERSE CHARACTERISTICS

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MOUNTING PAD LAYOUT

SMC / DO-214AB

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SS52~SS510	SMC	13 Inch	3000