

SS12F~SS110F

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20 to 100 Volt **CURRENT** 1 Ampere

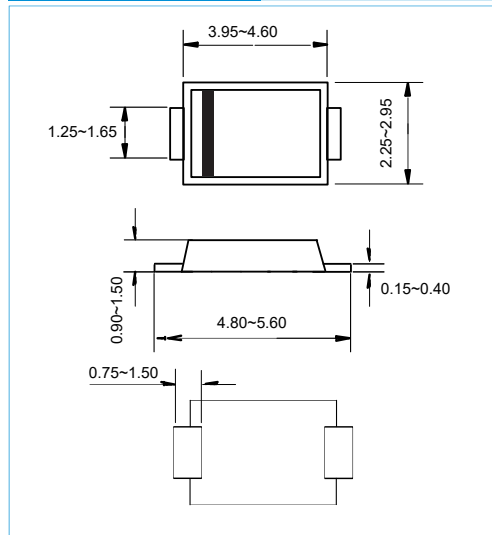
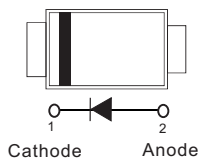
DO-221AC/SMAF Unit:mm

FEATURES

- Low Forward Voltage
- Guard Ring Protection
- High Current Capability
- 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	SS12F	SS13AF	SS14F	SS15F	SS16F	SS18F	SS110F	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)}	1							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30							A
Maximum Forward Voltage at 1 A	V _F	0.50			0.70		0.85		V
Maximum DC Reverse Current at Rated DC Blocking T _J =25°C T _J =100°C	I _R	0.5 20							mA
Thermal Resistance	R _{θJA} R _{θJL}	90 35							°C / W
Typical Junction Capacitance c _e	C _J	110					30		pF
Operating Junction Temperature Range	T _J	-55 to +125							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

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RATING AND CHARACTERISTIC CURVES

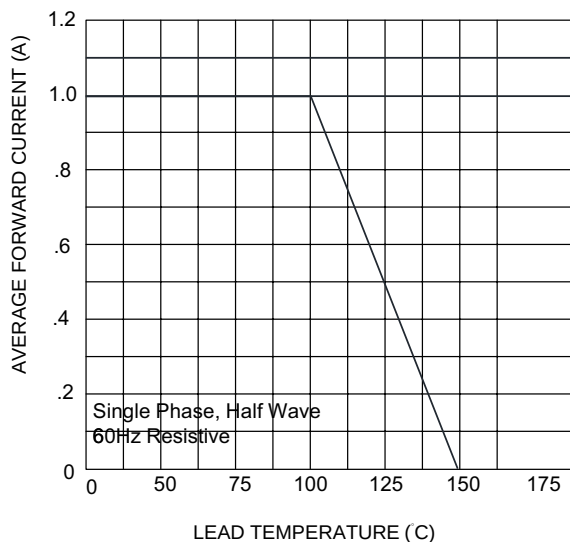


FIG.1 FORWARD CURRENT DERATING CURVE

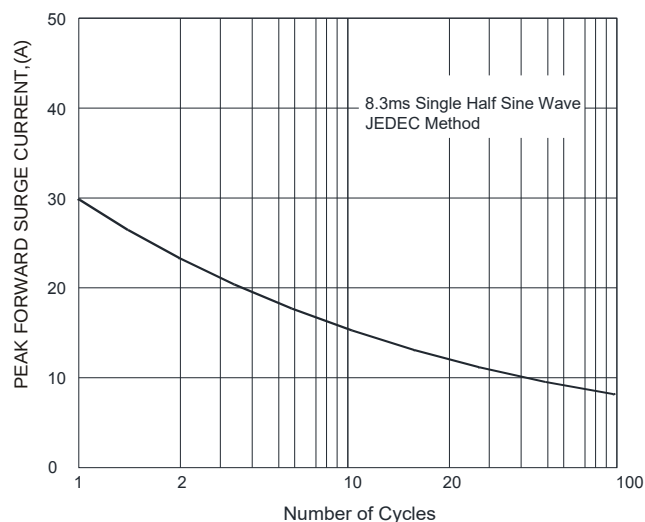


FIG.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

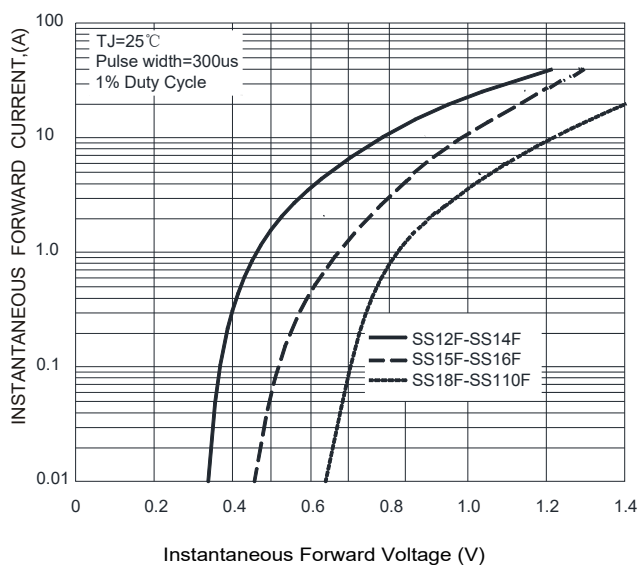


FIG.3 TYPICAL FORWARD CHARACTERISTICS

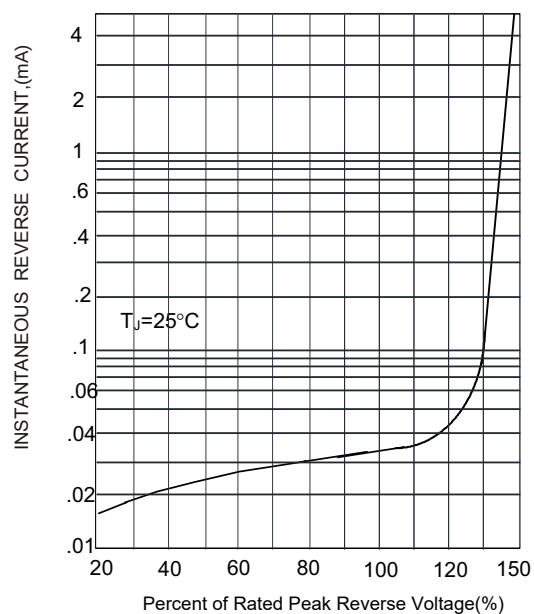


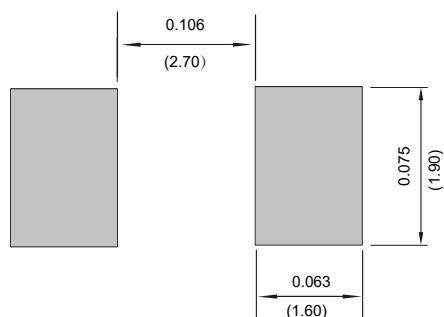
FIG.4 TYPICAL REVERSE CHARACTERISTICS

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MOUNTING PAD LAYOUT

DO-221AC/SMAF

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SS12F~SS110F	DO-221AC	13 Inch	10000