



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SS12
THRU
SS110

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
VOLTAGE RANGE - 20 to 100 Volts CURRENT - 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Glass passivated junction

MECHANICAL DATA

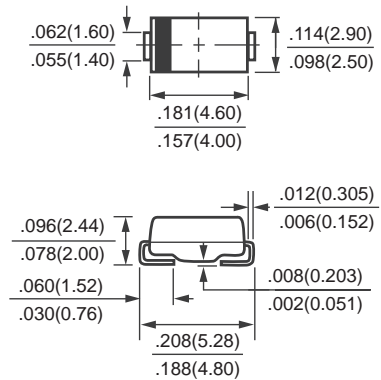
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



SMA (DO-214AC)



Dimensions in inches and (millimeters)

	SYMBOL	SS12	SS13	SS14	SS15	SS16	SS18	SS110	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	Vdc	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	IO	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	0.55		0.70		0.85		Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	@ TA = 25°C							mAmps
		1.0							
Typical Thermal Resistance (Note 1)	RθJA	20							°C/W
		@ TA = 100°C							
Typical Junction Capacitance (Note 2)	Cj	88							pF
Operating Temperature Range	TJ	110							°C
Storage Temperature Range	TSTG	-55 to +125							°C
		-55 to +150							°C

- NOTES : 1. Thermal Resistance (Junction to Ambient)
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. P.C.B. mounted with 0.2x0.2"(5.0x5.0mm²) copper pad area.

RATING AND CHARACTERISTIC CURVES (SS12 THRU SS110)

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

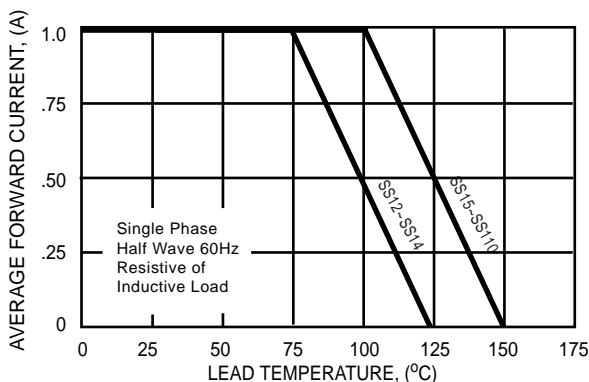


FIG.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

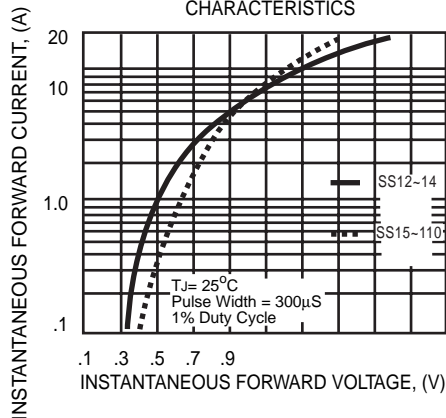


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

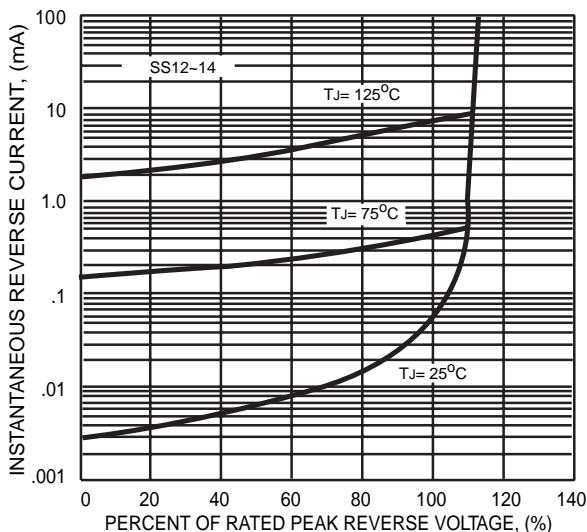


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

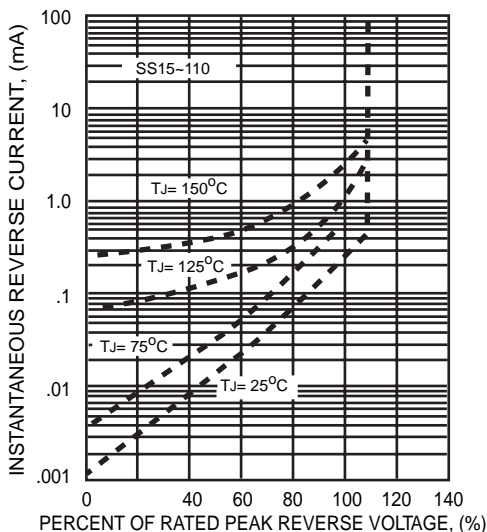


FIG.5 - TYPICAL JUNCTION CAPACITANCE

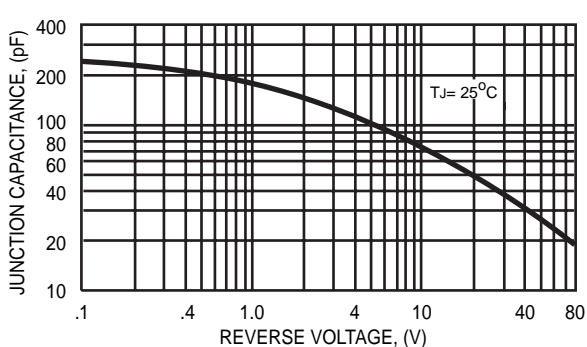
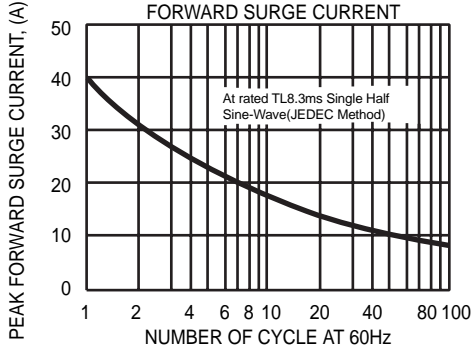


FIG.6 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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