



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SS12
THRU
SS120

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 200 Volts

CURRENT - 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Low profile package
- * Low power loss, high efficiency
- * High surge capability

MECHANICAL DATA

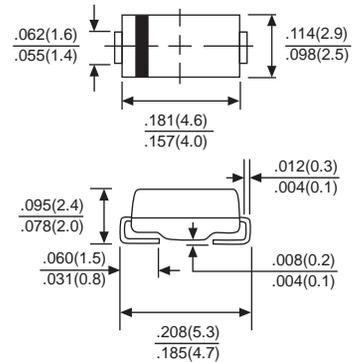
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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)

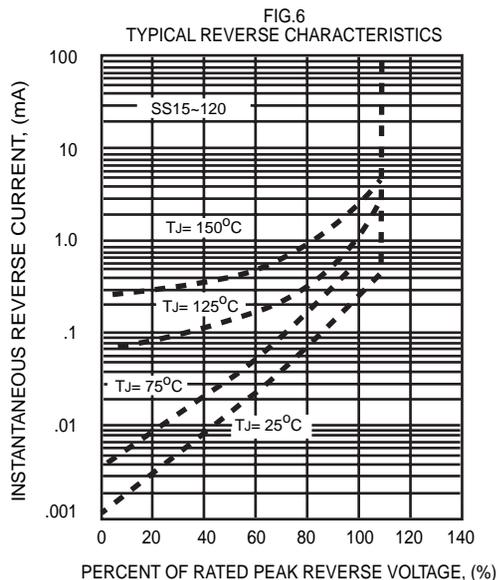
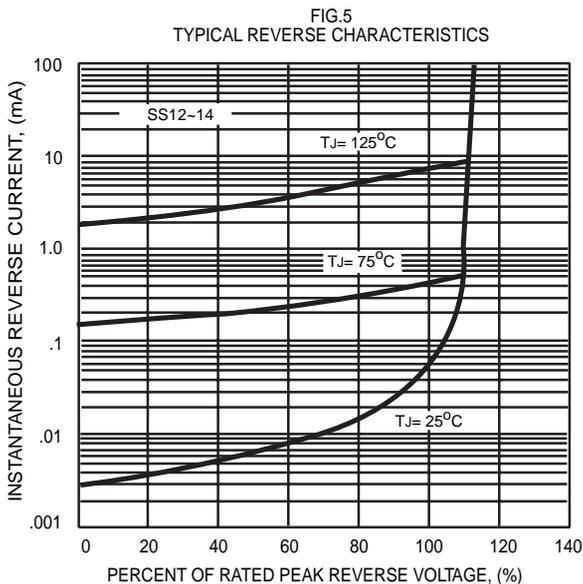
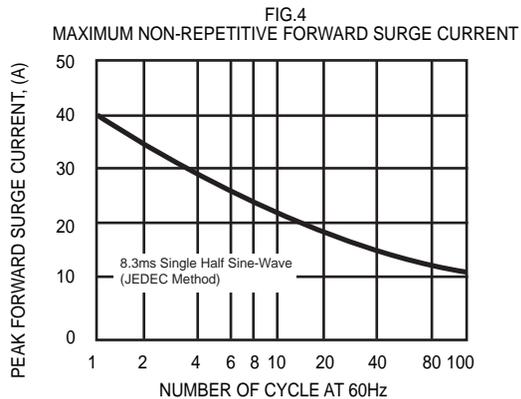
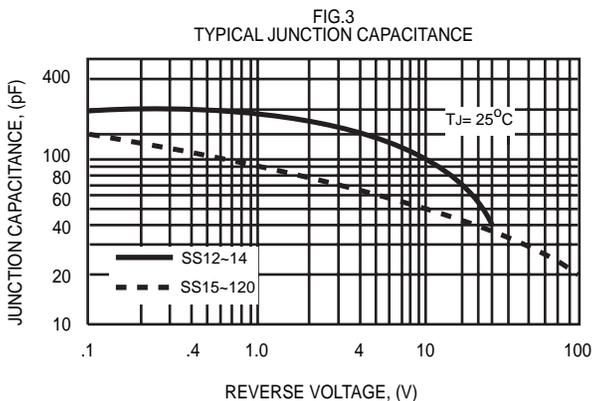
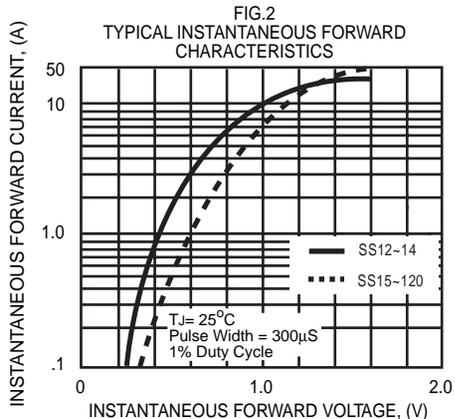
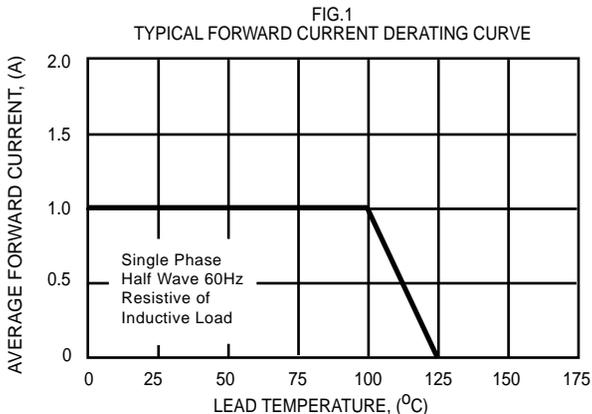


Dimensions in inches and (millimeters)

	SYMBOL	SS12	SS13	SS14	SS15	SS16	SS18	SS110	SS115	SS120	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	Vdc	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature TA=100°C	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		0.95		Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	1.0									mAmps
	@ TA = 100°C	20									
Typical Thermal Resistance (Note 1)	RθJA	88									°C/W
Typical Junction Capacitance (Note 2)	CJ	110									pF
Operating Temperature Range	TJ	-55 to +125									°C
Storage Temperature Range	TSTG	-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 SS120)



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