



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SS22
THRU
SS220

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 200 Volts

CURRENT - 2.0 Amperes

FEATURES

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

MECHANICAL DATA

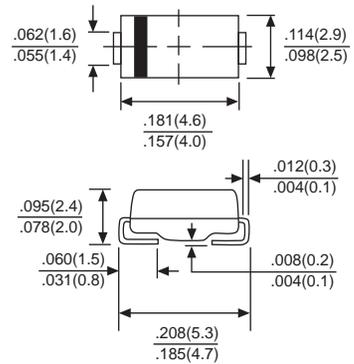
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



SMA(DO-214AC)



Dimensions in inches and (millimeters)

	SYMBOL	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS215	SS220	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	2.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	40									Amps
Maximum Instantaneous Forward Voltage at 2.0A DC	VF	0.55			0.70		0.85		0.95		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	2.0									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 (SS22 THRU SS220)

FIG.1
TYPICAL FORWARD CURRENT DERATING CURVE

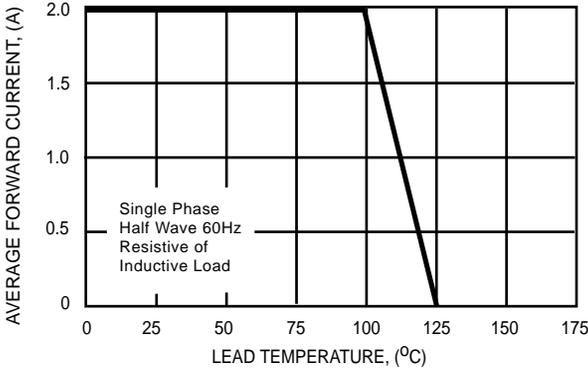


FIG.2
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

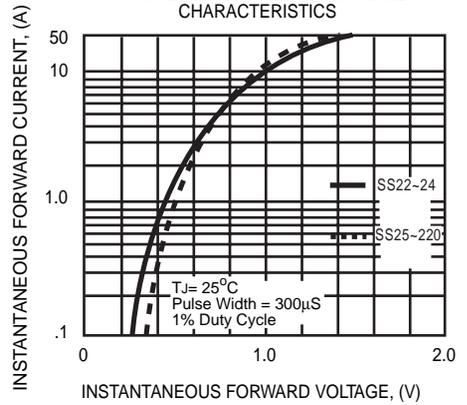


FIG.3
TYPICAL REVERSE CHARACTERISTICS

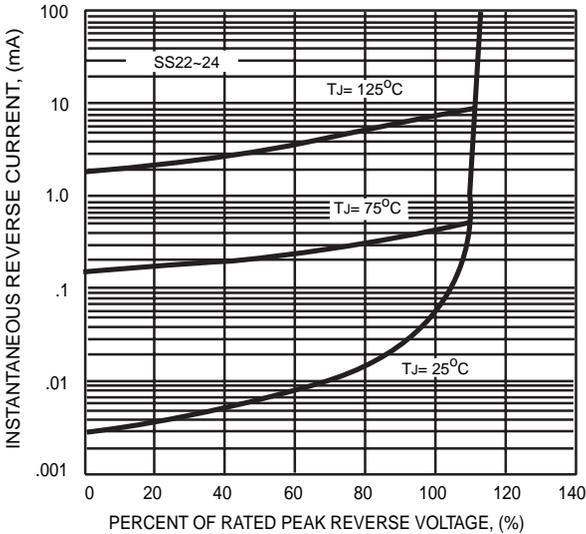


FIG.4
TYPICAL REVERSE CHARACTERISTICS

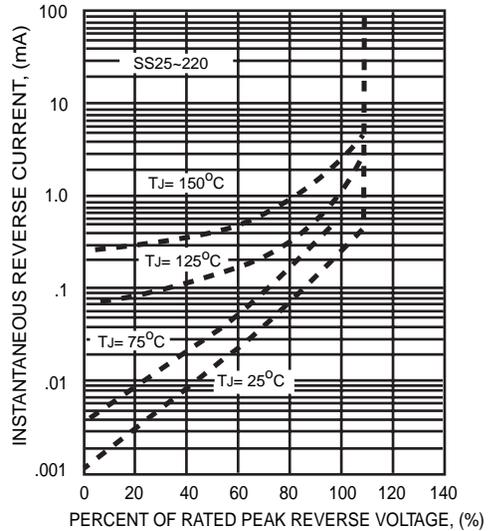


FIG.5
TYPICAL JUNCTION CAPACITANCE

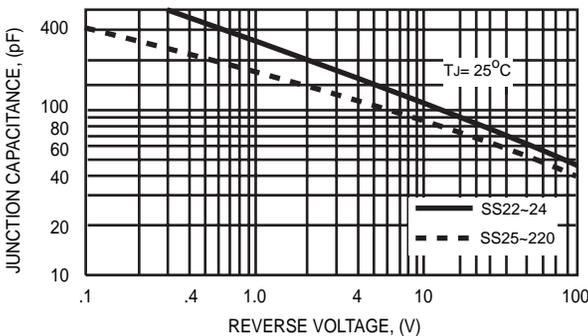
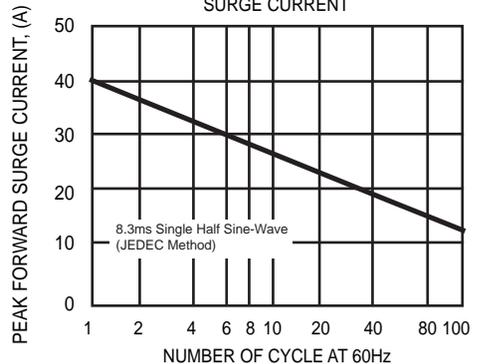


FIG.6
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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