



SS22 THRU SS26

2.0 AMPS. SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



FEATURES

- * For surface mounted application
- * Metal to silicon rectifier, majority carrier conduction
- * Low forward voltage drop
- * Easy pick and place
- * High surge current capability
- * Plastic material used carries Underwriters Laboratory classification 94V-0
- * Epitaxial construction

MECHANICAL DATA

- * CASE: Molded plastic
- * Terminals: Solder plated
- * Polarity: Indicated by cathode band
- * Packaging: 12mm tape per EIA STD RS-481
- * Weight: 0.1 grams

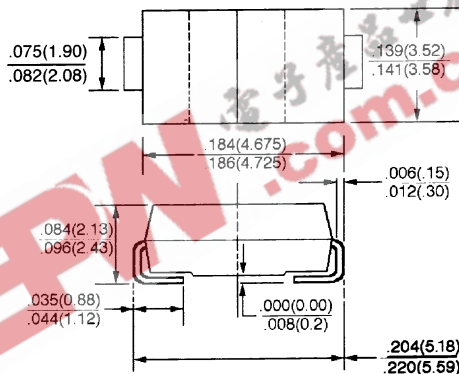
VOLTAGE RANGE

20 to 60 Volts

CURRENT

2.0 Amperes

SMB/DO-214AA



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOLS	SS22	SS23	SS24	SS25	SS26	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current at T _L (See Figure 1)	I _{F(AV)}	2.0					A
Peak Forward Surge Current, (8.3 ms half sine)	I _{FSM}	50					A
Maximum Instantaneous Forward Voltage @ 2.0A	V _F	0.50			0.70		V
Maximum D. C Reverse Current(NOTE 1) @ T _a = 25°C at Rated D. C Blocking Voltage @ T _a = 100°C	I _R	0.5					mA
		20.0			10.0		
Maximum Thermal Resistance (NOTE 2)	R _{θJA} R _{θJL}	17 75					°C/W
Operating Temperature Range	T _J	- 65 to + 125			- 60 to + 150		°C
Storage Temperature Range	T _{STG}	- 65 to + 150					°C

NOTE 1. Pulse test with $PW = 300 \mu\text{sec}$, 1% Duty Cycle.

2. P.C.B mounted with 0.2×0.2 " ($5.0 \times 5.0\text{mm}$) copper pad areas.



RATINGS AND CHARACTERISTIC CURVES (SS22 THRU SS26)

FIG. 1 – FORWARD CURRENT DERATING CURVE

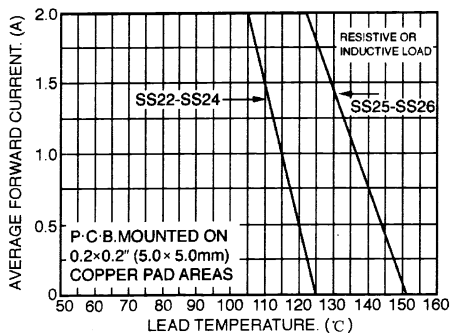


FIG. 2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

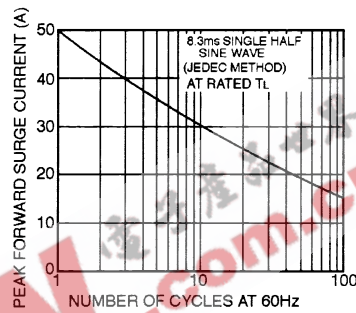


FIG. 3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

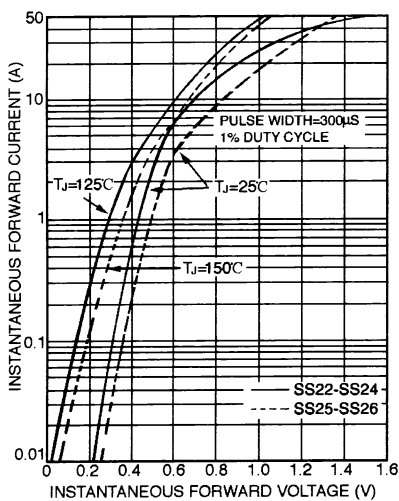


FIG. 4 – TYPICAL REVERSE CURRENT CHARACTERISTICS

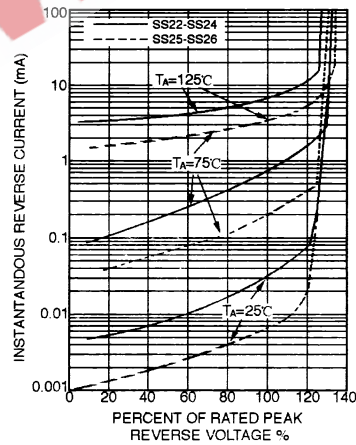


FIG. 5 – TYPICAL JUNCTION CAPACITANCE

