



SS22 THRU SS26

2.0 AMPS. SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



FEATURES

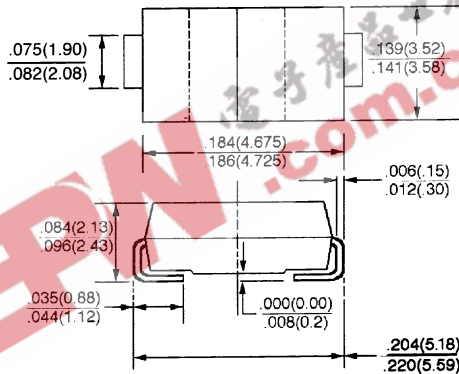
- * For surface mounted application
- * Metal to silicon rectifier, majority carrier conduction
- * Low forward voltage drop
- * Easy pick and place
- * High surge current capability
- * Plastic material used carries Underwriters Laboratory classification 94V-0
- * Epitaxial construction

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) @ $T_a = 25^\circ\text{C}$ at Rated D. C Blocking Voltage @ $T_a = 100^\circ\text{C}$	I_R	0.5				10.0	mA
Maximum Thermal Resistance (NOTE 2)	$R_{\theta JA}$ $R_{\theta JL}$	17 75					$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	- 65 to + 125			- 60 to + 150		$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 65 to + 150					$^\circ\text{C}$

NOTE 1. Pulse test with PW=300 usec, 1% Duty Cycle.
2. P. C. B mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.



RATINGS AND CHARACTERISTIC CURVES (SS22 THRU SS26)

FIG. 1 - FORWARD CURRENT DERATING CURVE

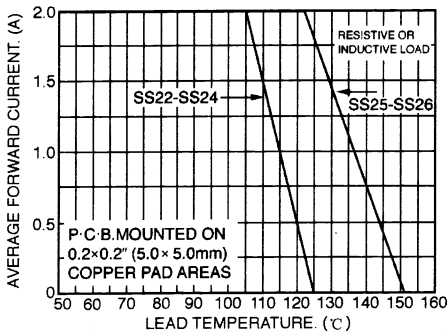


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

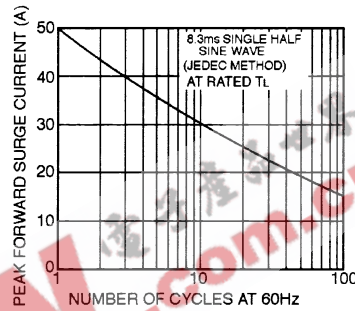


FIG. 4 - TYPICAL REVERSE CURRENT CHARACTERISTICS

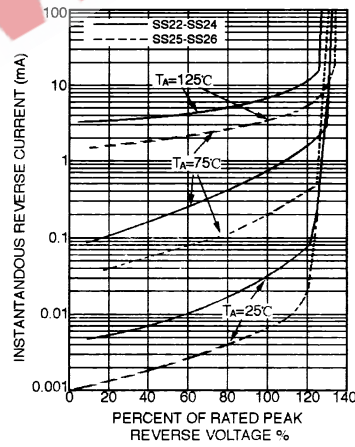


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

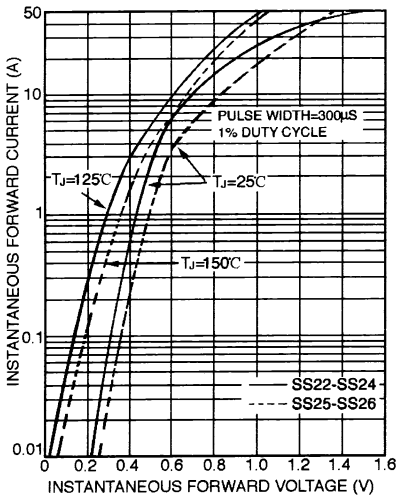


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

