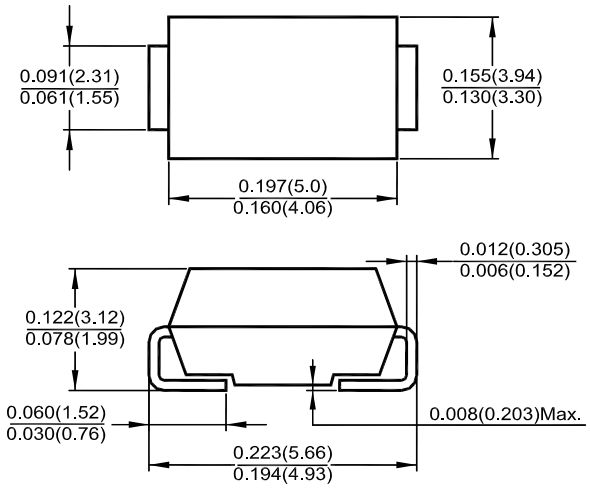
SS22 THRU SS210

Surface Mount Schottky Barrier Rectifier
Reverse Voltage - 20 to 100 V
Forward Current - 2 A

Features
- The plastic package carries UL Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- Built-in strain relief, ideal for automated placement

SMB (DO-214AA)



Dimensions in inches and (millimeters)

Mechanical Data
- **Case:** SMB (DO-214AA) molded plastic body
- **Terminal:** Leads solderable per MIL-STD-750, Method 2026
- **Polarity:** Color band denotes cathode end
- **Mounting Position:** Any

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 current derate by 20%.

Parameter	Symbols	SS22	SS24	SS26	SS28	SS210	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	28	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2					A
Peak Forward Surge Current 8.3 ms Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50					A
Maximum Instantaneous Forward Voltage at 2 A	V_F	0.55		0.7	0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_a = 25 °C	I_R	0.5					mA
T_a = 100 °C		20		10			
Typical Junction Capacitance [1]	C_J	220		180			pF
Typical Thermal Resistance [2]	$R_{\theta JA}$	75					°C/W
Operating Junction Temperature Range	T_j	- 65 to + 125		- 65 to + 150			°C
Storage Temperature Range	T_{stg}	- 65 to + 150					°C

[1] Measured at 1 MHz and applied reverse voltage of 4 V.
[2] P.C.B mounted with 0.2 X 0.2"(5 X 5 mm) copper pad areas.

FIG. 1- FORWARD CURRENT DERATING CURVE

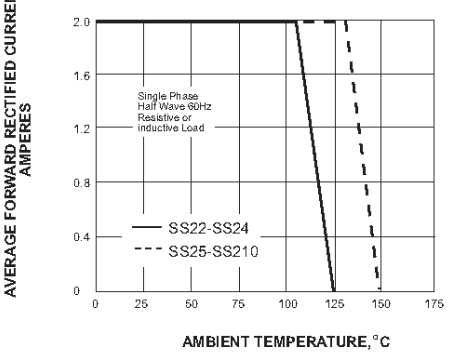


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

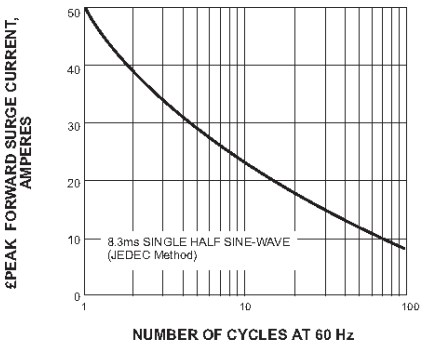


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

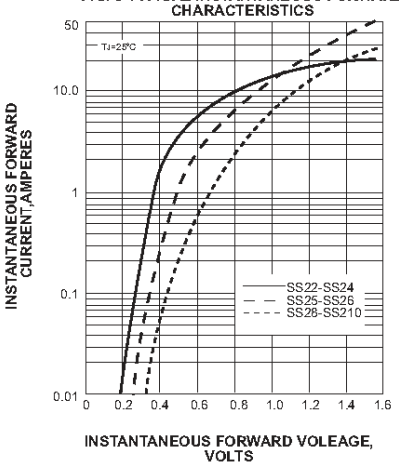


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

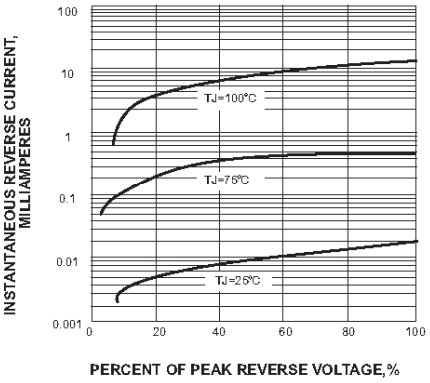


FIG. 5-TYPICAL JUNCTION CAPACITANCE

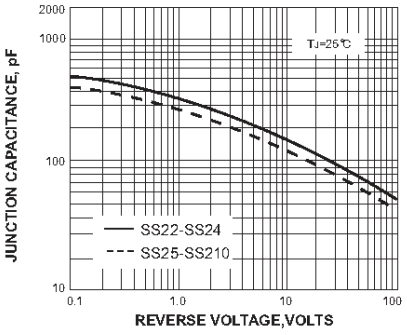


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE