

SS22A THRU SS220A

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 V

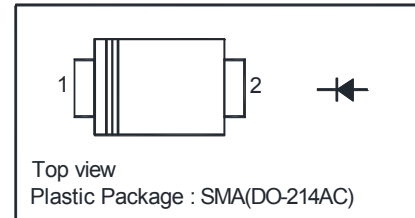
Forward Current - 2 A

Features

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Mechanical Data

- **Case:** SMA (DO-214AC) molded plastic body
- **Terminals:** 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	Symbol	SS22A	SS23A	SS24A	SS25A	SS26A	SS28A	SS210A	SS212A	SS215A	SS220A	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	120	150	200	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2										A
Peak Forward Surge Current 8.3 ms Single 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		0.95				V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _a = 25 °C T _a = 100 °C	I _R	0.5										mA
		20		10								
Typical Junction Capacitance ¹⁾	C _j	220		180								pF
Typical Thermal Resistance ²⁾	R _{θJA}	80										°C/W
Operating Junction Temperature Range	T _j	-55 to + 150										°C
Storage Temperature Range	T _{stg}	-55 to + 150										°C

¹⁾ Measured at 1MHz and applied reverse voltage of 4 V DC.

²⁾ P.C.B mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

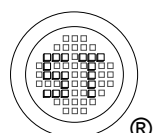


Fig.1 Forward Current Derating Curve

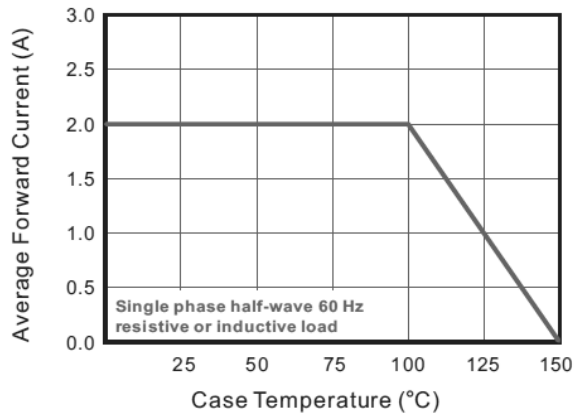


Fig.2 Typical Reverse Characteristics

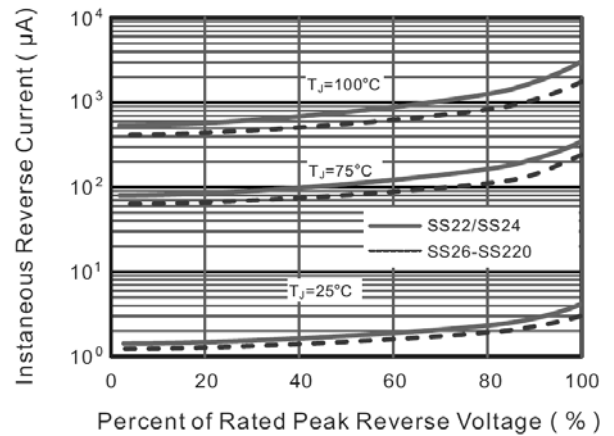


Fig.3 Typical Forward Characteristic

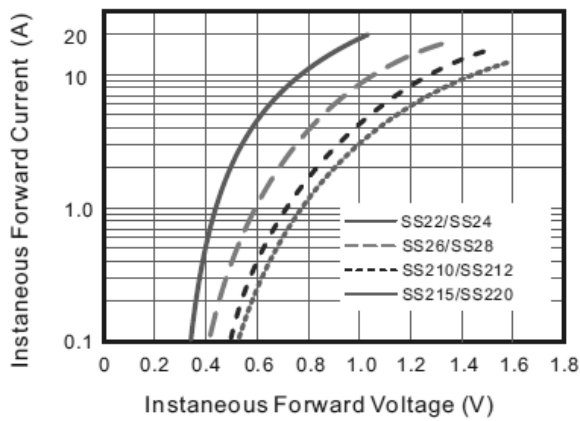


Fig.4 Typical Junction Capacitance

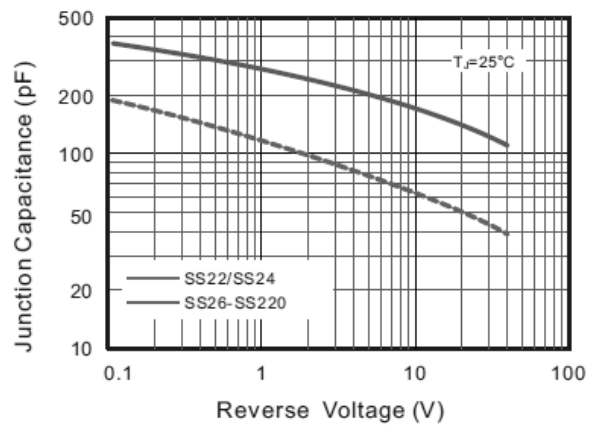


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

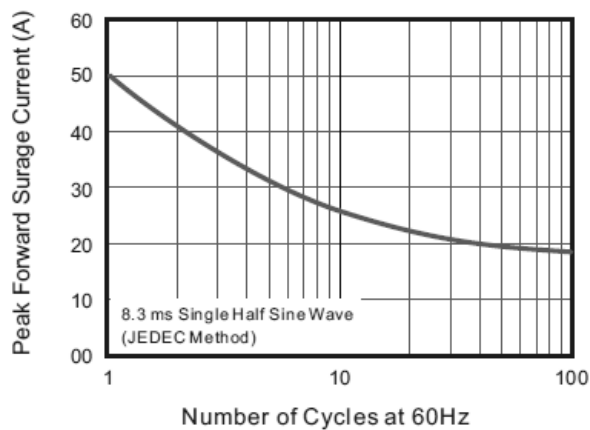
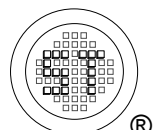
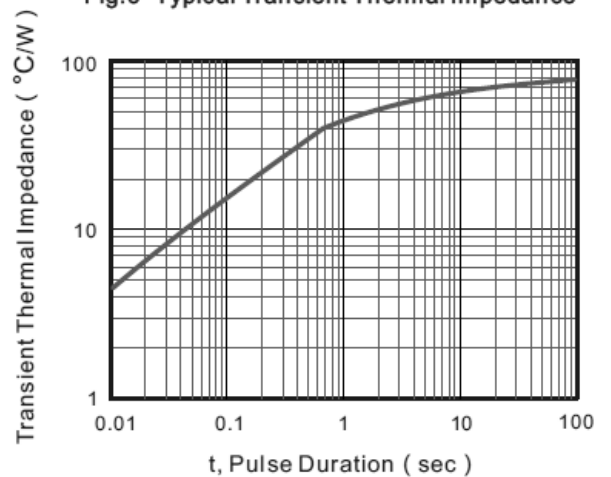


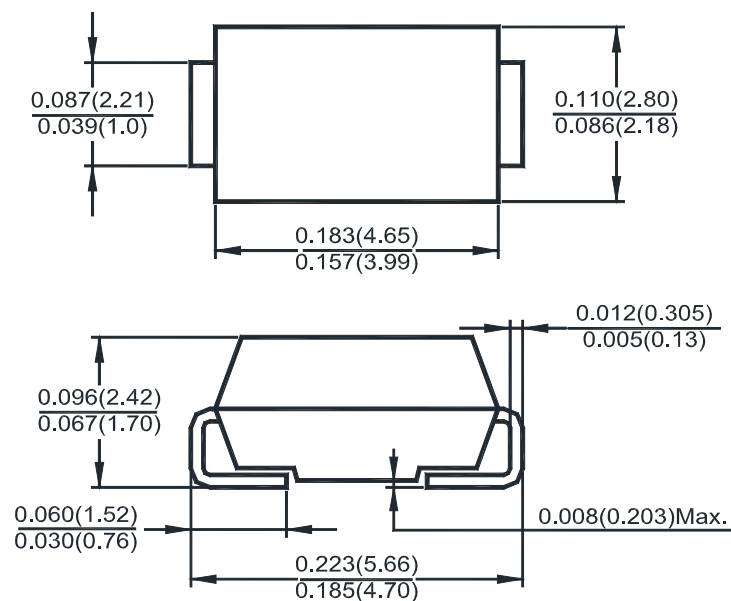
Fig.6 Typical Transient Thermal Impedance



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Package Outline Dimensions in inches (millimeters)

SMA(DO-214AC)



Marking information

" **** " = Part No.

" III " = Cathode line

Font type: Arial

