

SS22AD THRU SS210AD

Surface Mount Schottky Barrier Rectifiers

Reverse Voltage - 20 to 100 V

Forward Current - 2 A

Features

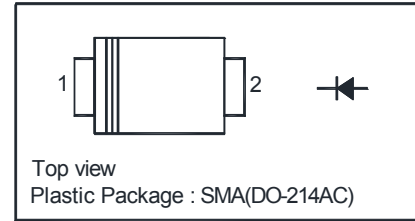
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- The plastic package carries Underwriters Laboratory flammability Classification 94V-0
- High forward surge current capability
- Built-in strain relief, ideal for automated placement

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



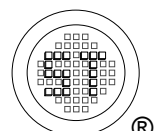
Maximum Ratings and Electrical Characteristics

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	SS22AD	SS23AD	SS24AD	SS25AD	SS26AD	SS28AD	SS210AD	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	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		0.75		0.85			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.5							mA
		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

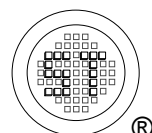
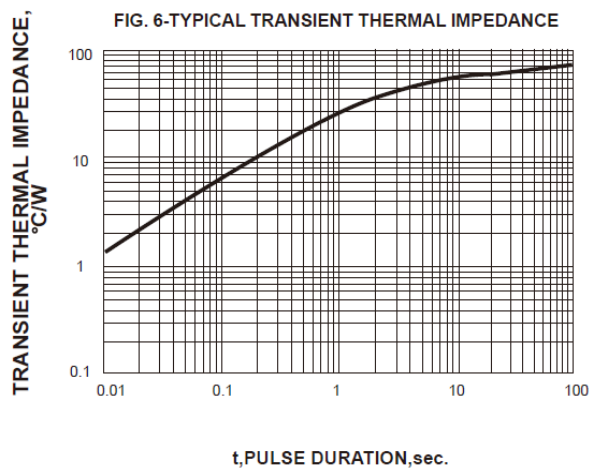
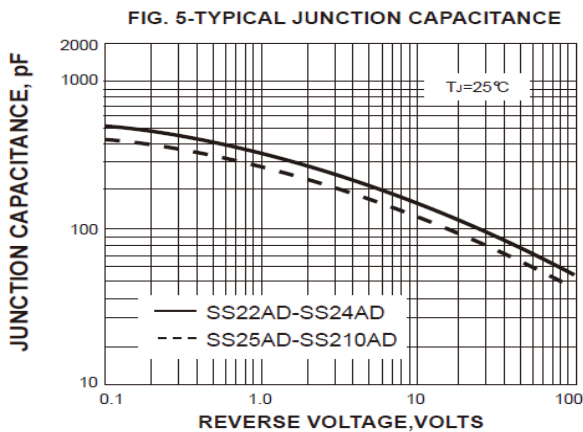
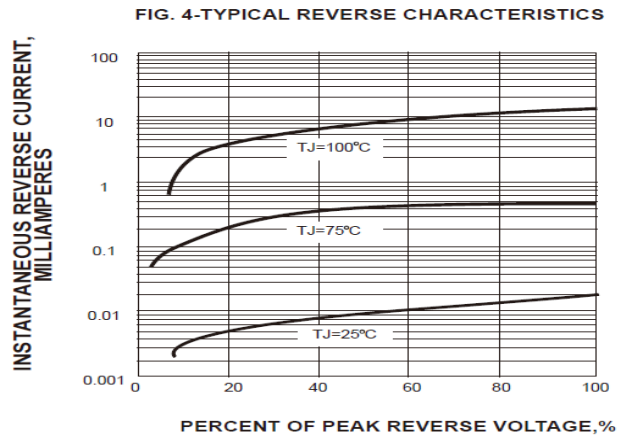
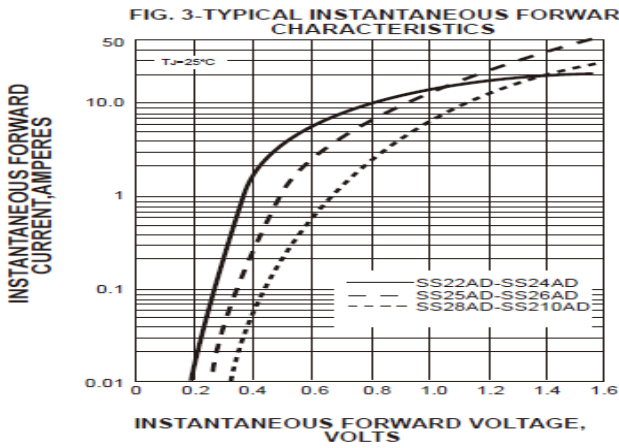
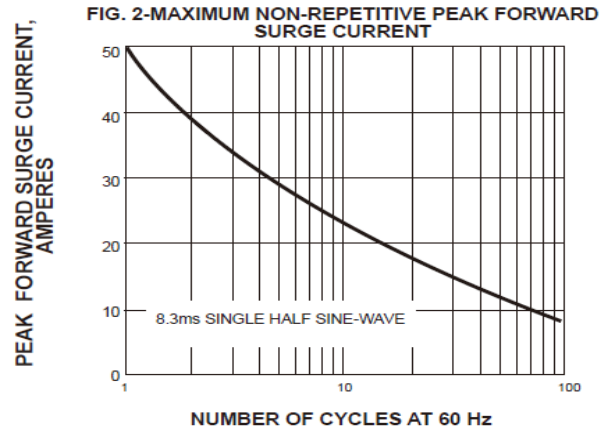
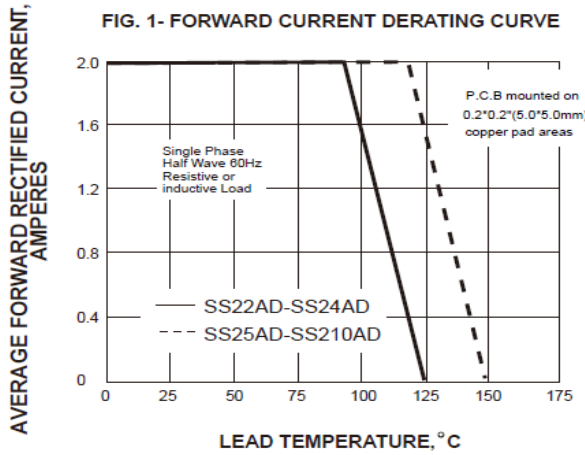
¹⁾ Measured at 1MHz and applied reverse voltage of 4 V DC.

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



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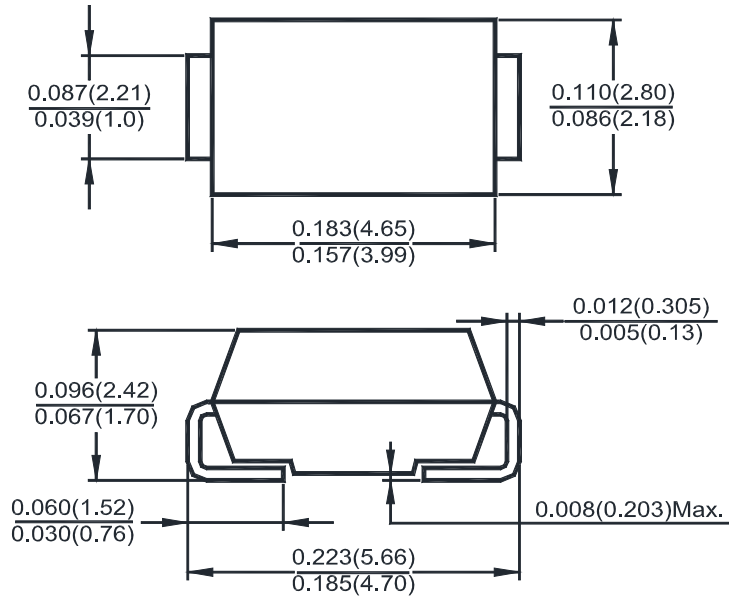
Electrical Characteristic Curves



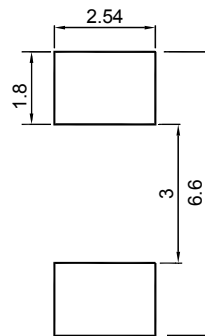
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Package Outline Dimensions in inches (millimeters)

SMA(DO-214AC)



Recommended Soldering Footprint



Marking information

" SS***A " = Part No.

Type	Marking	Type	Marking	Type	Marking	Type	Marking
SS22AD	SS22A	SS23AD	SS23A	SS24AD	SS24A	SS25AD	SS25A
SS26AD	SS26A	SS28AD	SS28A	SS210AD	SS210A		

" III " = Cathode line

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