

SS22A THRU SS210A

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 V

Forward Current - 2 A

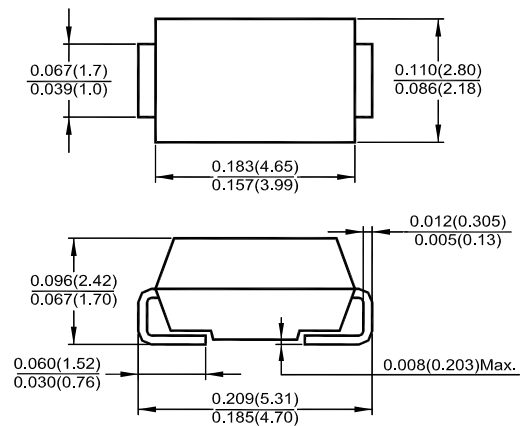
Features

- 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

SMA (DO-214AC)



Dimensions in inches and (millimeters)

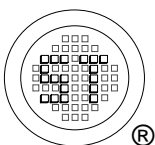
Maximum Ratings and Electrical Characteristics

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	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	$I_{(AV)}$	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	$T_A = 25\text{ }^{\circ}\text{C}$	0.5							mA
	$T_A = 100\text{ }^{\circ}\text{C}$	20		10					
Typical Junction Capacitance ¹⁾	C_J	220		180				pF	
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	75							$^{\circ}\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	- 65 to + 125			- 65 to + 150			$^{\circ}\text{C}$	
Storage Temperature Range	T_S	- 65 to + 150							$^{\circ}\text{C}$

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.



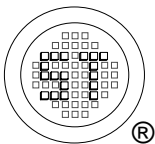
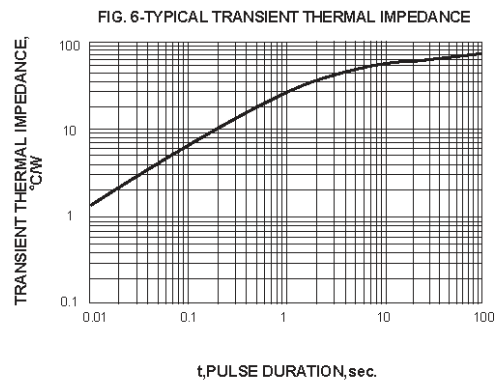
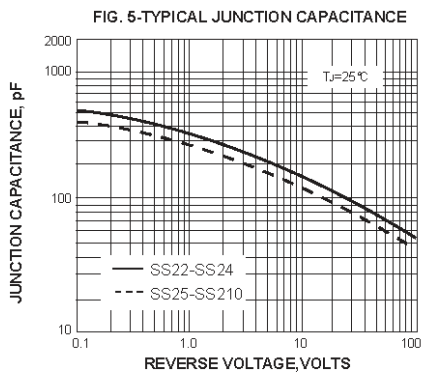
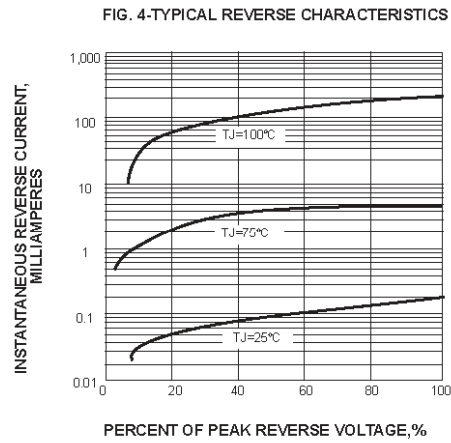
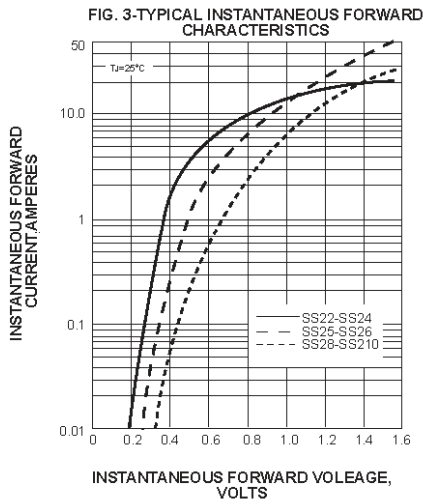
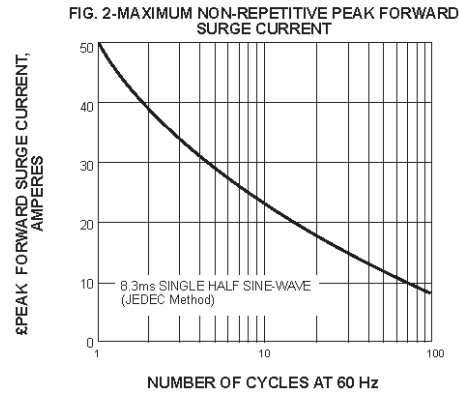
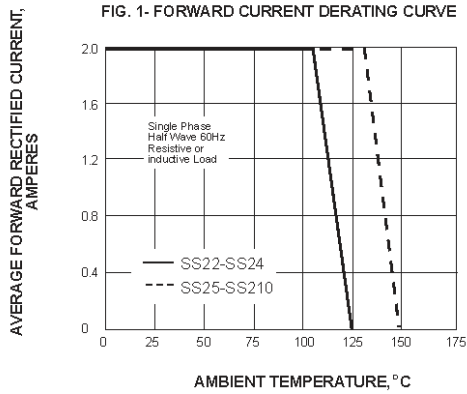
SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002 Certificate No. 05103
 ISO 14001:2004 Certificate No. 7116
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