

SS22 THRU SS210

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 V

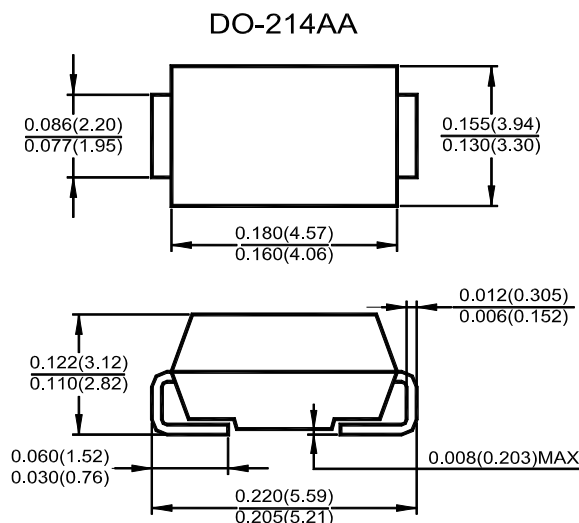
Forward Current - 2 A

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

Mechanical Data

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



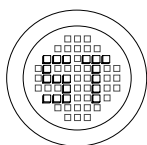
Maximum Ratings and Electrical Characteristics

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	SS23	SS24	SS25	SS26	SS28	SS210	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 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 _{θJA}	75							°C/W
Operating Junction Temperature Range		T _J	-65 to +125			-65 to +150			°C	
Storage Temperature Range		T _S	-65 to +150							°C

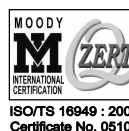
¹⁾ Measured at 1 MHz and applied reverse voltage of 4 VDC.

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



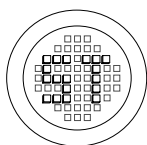
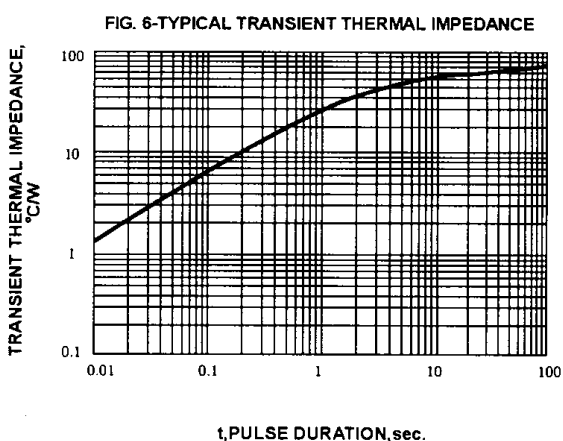
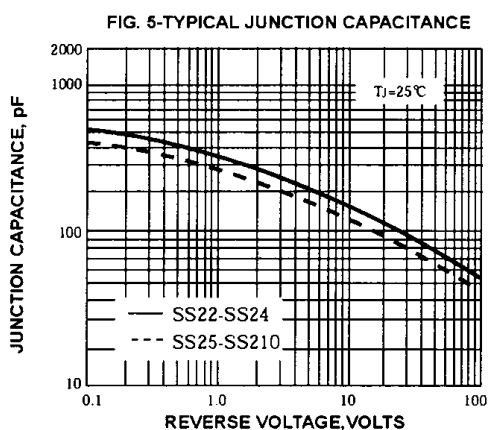
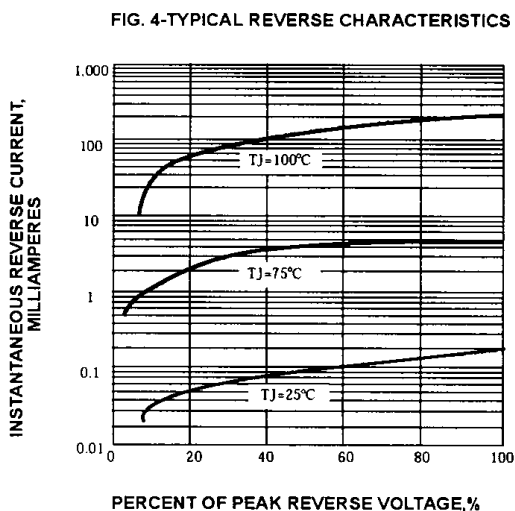
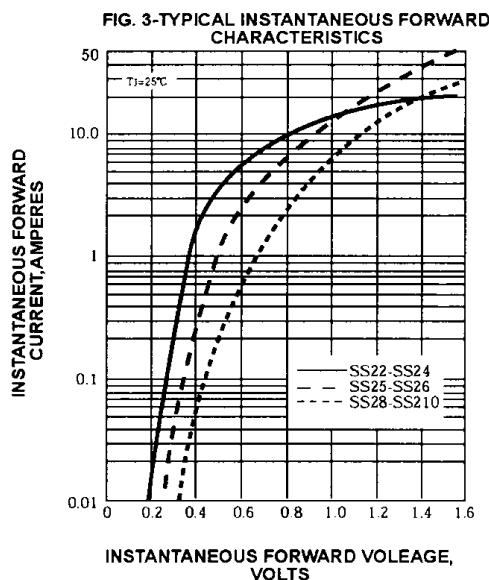
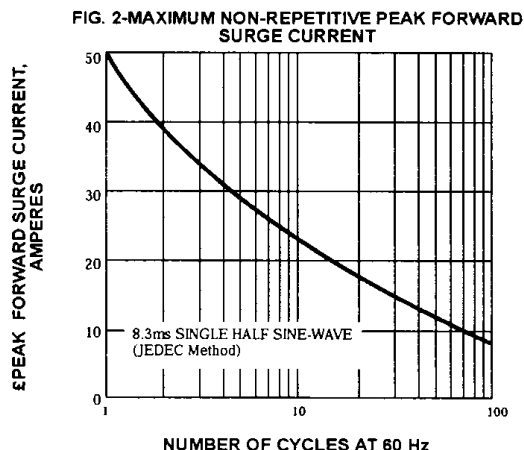
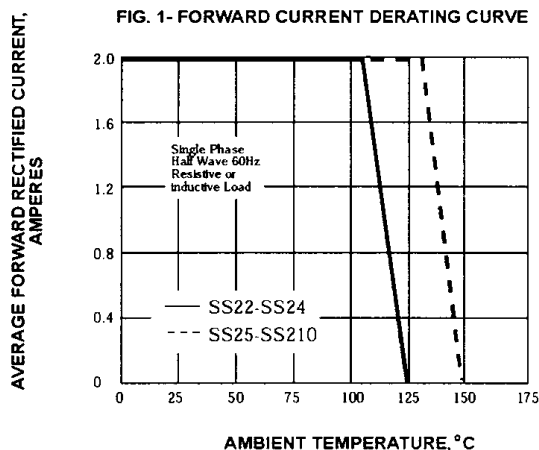
SEMTECH ELECTRONICS LTD.

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



Dated : 14/03/2006 C

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ISO/TS 16949 : 2002
Certificate No. 05103

ISO 14001:2004
Certificate No. 7116

ISO 9001:2000
Certificate No. 0506098

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