

SS22 THRU SS210

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 V

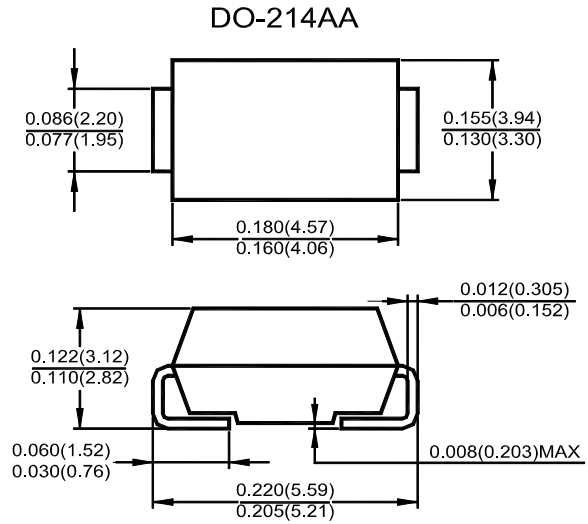
Forward Current - 2 A

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



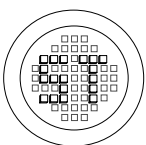
Maximum Ratings and Electrical Characteristics

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

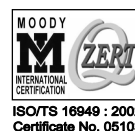
¹⁾ Measured at 1 MHz and applied reverse voltage of 4 VDC.

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



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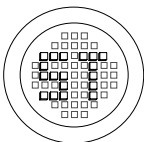
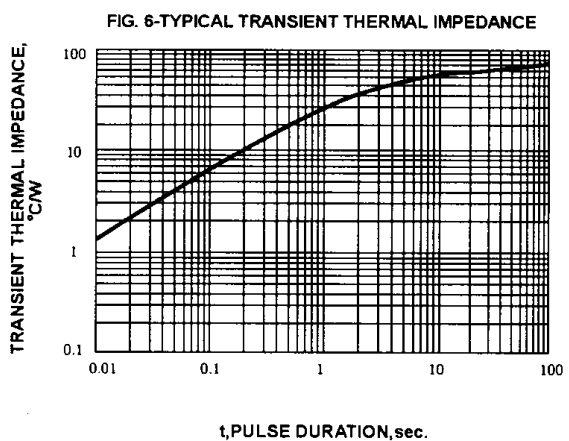
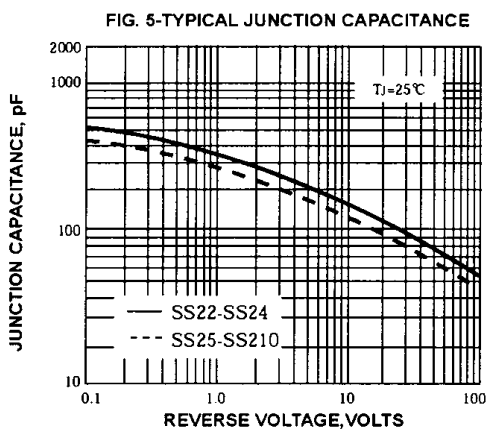
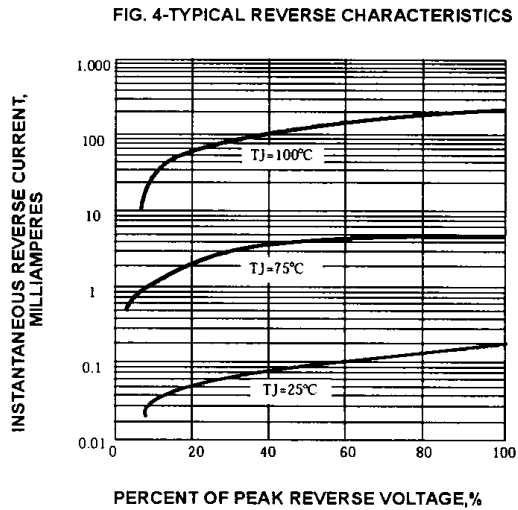
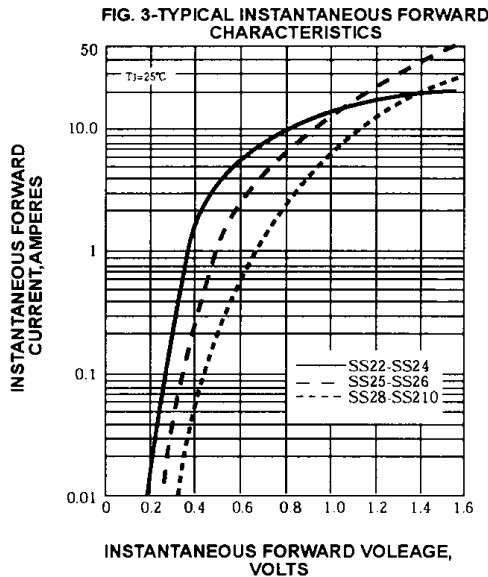
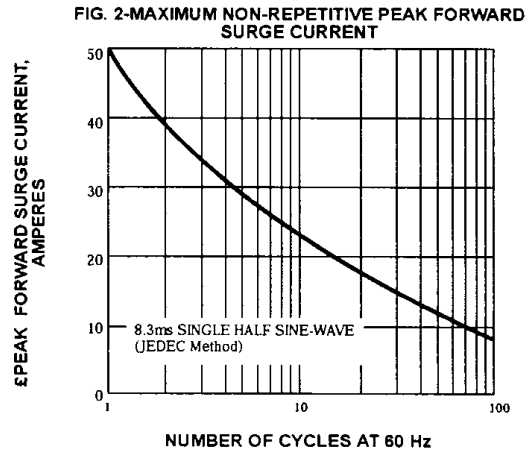
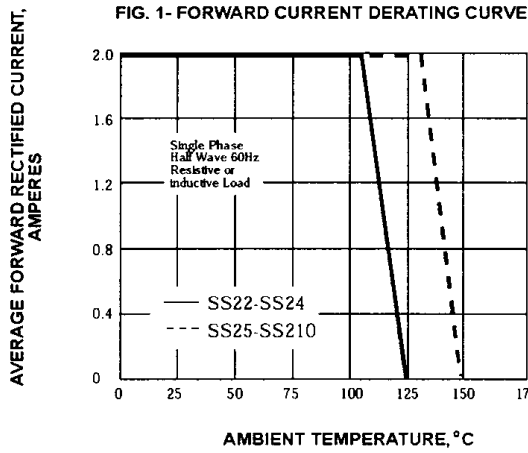
ISO/TS 16949 : 2002
Certificate No. 05103

ISO 14001:2004
Certificate No. 7116

ISO 9001:2000
Certificate No. 0506098

Dated : 14/03/2006 C

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