SR220 THRU SR2200

Schottky Barrier Rectifiers Reverse Voltage – 20 to 200 V Forward Current – 2 A

Features

- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- Metal silicon junction, majority carrier conduction

Mechanical Data

- Case: Molded plastic, DO-15.
- Terminals: Axial leads, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any

Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

Parameter	Symbols	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	SR2150	SR2200	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	57	71	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Forward Voltage at 2 A ¹⁾	V _F	0.55			0	0.7 0.8		35 0.95		95	V
Maximum Average Forward Rectified Current 0.375"(9.5 mm) Lead Length at $T_L = 75$ °C	I _{F(AV)}	2								А	
Peak Forward Surge Current 8.3 ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50							A		
Maximum Reverse Current at Rated $T_a = 25 \ ^{\circ}C$ DC Blocking Voltage 1) $T_a = 100 \ ^{\circ}C$	I _R	1 10						mA			
Typical Junction Capacitance ³⁾	CJ		180							pF	
Typical Thermal Resistance ²⁾	R_{\thetaJA}		45								°C/W
Operating JunctionTemperature Range	Tj	- 5	- 55 to + 125 - 55 to + 150								°C
Storage Temperature Range	T _{stg}	- 55 to + 150								°C	

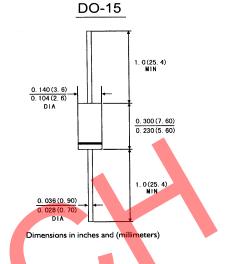
¹⁾ Pulse test: 300 µs pulse width, 1% duty cycle

²⁾ Thermal resistance from junction to lead, and/or to ambient P.C.B mounted with 0.375"(9.5 mm) lead length with 1.5 X 1.5"(38 mm X 38 mm) copper pads

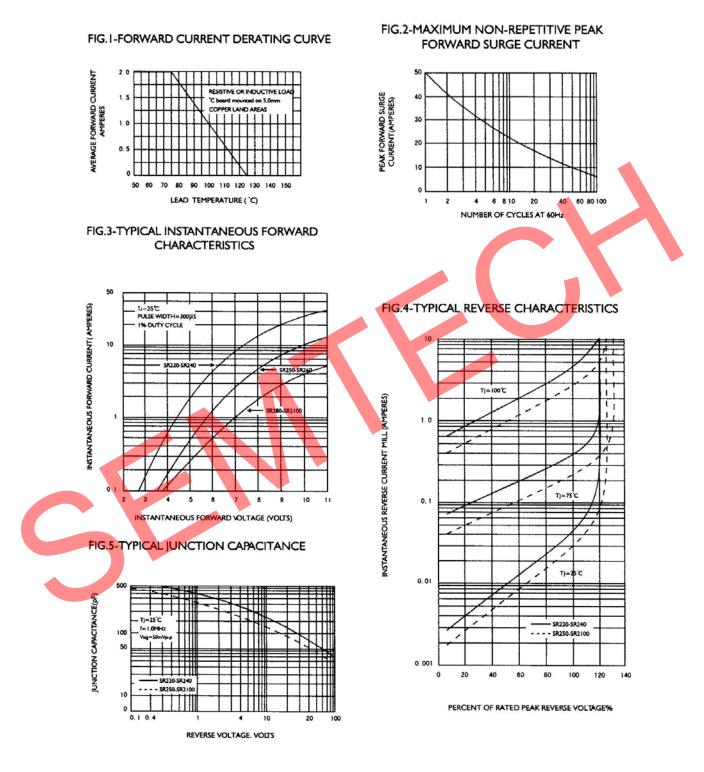
³⁾Measure at 1 MHz and reverse voltage of 4 V.







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