SR220 THRU SR2100

Schottky Barrier Rectifiers Reverse Voltage – 20 to 100 V Forward Current – 2.0 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%.

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Parameter	Symbols	SR 220	SR 230	SR 240	SR 250	SR 260	SR 280	SR 2100	Units
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	57	71	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum Forward Voltage at 2 A ¹⁾	V _F	0.55			0.	0.7		0.85	
Maximum Average Forward Rectified Current 0.375"(9.5 mm) Lead Length at T_L = 75 °C	I _(AV)	2							A
Peak Forward Surge Current 8.3 ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50							А
Maximum Reverse Current at Rated DC $T_A = 25 ^{\circ}C$ Blocking Voltage 1) $T_A = 100 ^{\circ}C$	I _R	1 10						mA	
Typical Junction Capacitance ³⁾	CJ	170						pF	
Typical Thermal Resistance ²⁾	R _{θJA}	35						°C/W	
Operating and Storage Temperature Range	T _j ,T _{stg}	- 65 to + 125							°C

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

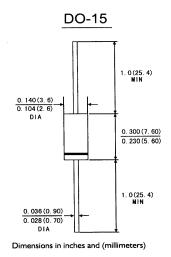
²⁾ Thermal resistance from junction to lead, and/or to ambient P.C.B mounted with 0.375"(9.5 mm) lead length with 1.5 X 1.5"(38 mm X 38 mm) copper pads

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



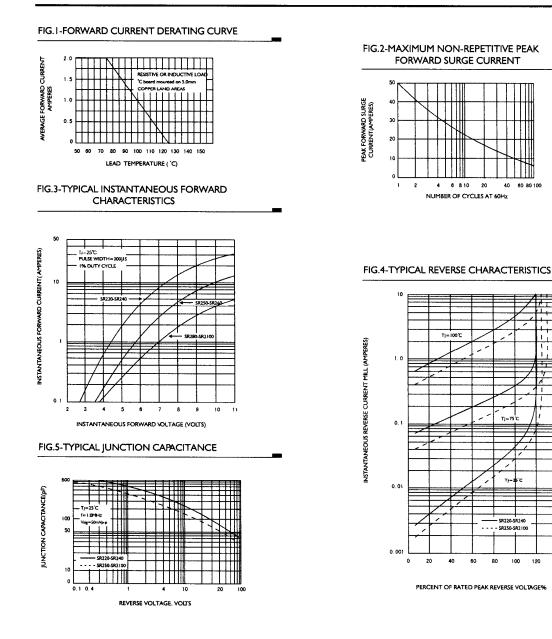


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RATINGSAND CHARACTERISTIC CURVES SR220 THRU SR2100



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