

# SR220 THRU SR2200

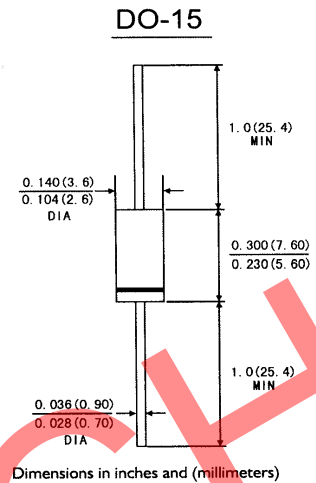
## Schottky Barrier Rectifiers Reverse Voltage – 20 to 200 V Forward Current – 2 A

### 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

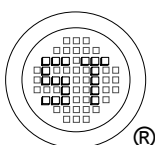
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

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 <sup>1)</sup>	$V_F$	0.55		0.7		0.85		0.95			V	
Maximum Average Forward Rectified Current 0.375"(9.5 mm) Lead Length at $T_L = 75\text{ }^\circ\text{C}$	$I_{F(AV)}$	2										A
Peak Forward Surge Current 8.3 ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	50										A
Maximum Reverse Current at Rated DC Blocking Voltage <sup>1)</sup> $T_a = 25\text{ }^\circ\text{C}$ $T_a = 100\text{ }^\circ\text{C}$	$I_R$						1	10				mA
Typical Junction Capacitance <sup>3)</sup>	$C_J$						180					pF
Typical Thermal Resistance <sup>2)</sup>	$R_{\theta JA}$						45					$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_J$	- 55 to + 125				- 55 to + 150						$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150										$^\circ\text{C}$

<sup>1)</sup> Pulse test: 300  $\mu\text{s}$  pulse width, 1% duty cycle

<sup>2)</sup> 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

<sup>3)</sup> Measure at 1 MHz and reverse voltage of 4 V.



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FIG.1-FORWARD CURRENT DERATING CURVE

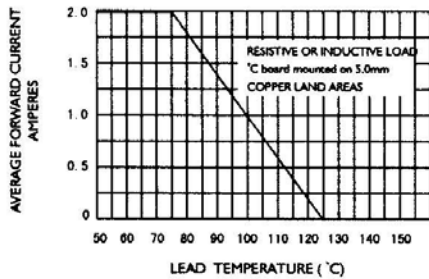


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

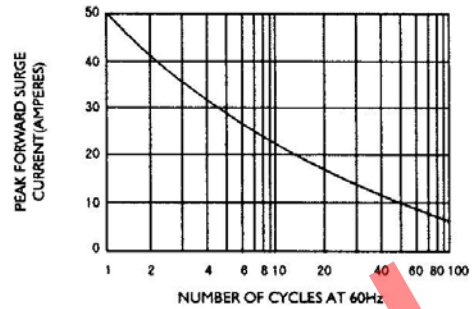


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

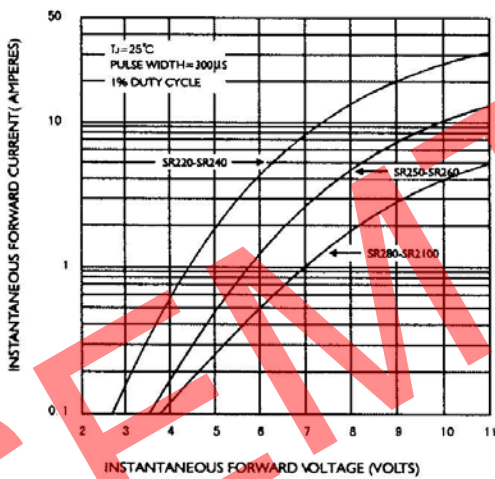


FIG.4-TYPICAL REVERSE CHARACTERISTICS

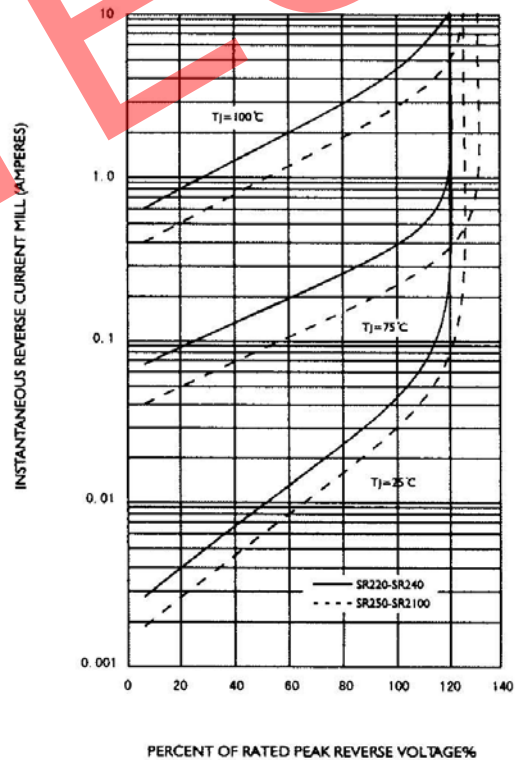
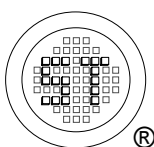
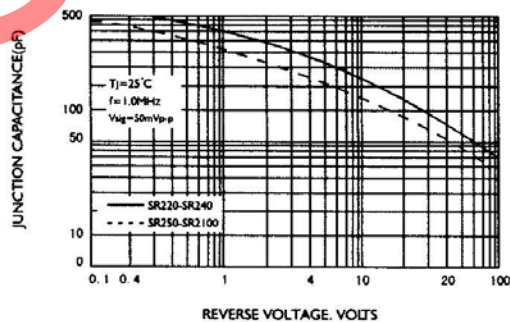


FIG.5-TYPICAL JUNCTION CAPACITANCE



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