

# SCHOTTKY BARRIER RECTIFIERS

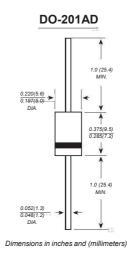
Reverse Voltage - 20 to 200 V Forward Current - 3 A

### Features

- Plastic package has UL flammability classification 94V-0
- Metal silicon junction, majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- · High surge capability

### **Mechanical Data**

- Case: Molded plastic body, DO-201AD
- Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026
- · Polarity: color band denotes cathode end
- Mounting Position: Any



#### **Absolute 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 current by 20%.

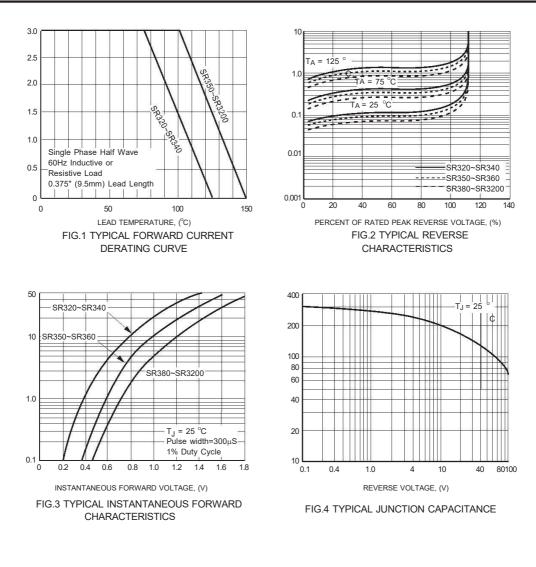
Parameter	Symbols	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length	I <sub>F(AV)</sub>	3								A	
Peak Forward Surge Current, 8.3 ms Single Half- Sine-Wave Superimposed on Rated Load (JEDEC method)	IFSM	70									A
Maximum Forward Voltage at 3 A DC	VF	0.55		0	.7	0.85		0.9	0.95	V	
Maximum Reverse Current at Rated $T_A = 25 \circ C$ DC Blocking Voltage $T_A = 100 \circ C$	– I <sub>R</sub>	0.5								mA	
Typical Junction Capacitance 1)	CJ	250									pF
Typical Thermal Resistance <sup>2)</sup>	R <sub>0JA</sub>	40								°C/W	
Operating Junction Temperature Range	Tj	- 55 to + 125 - 55 to + 150						°C			
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150								°C	

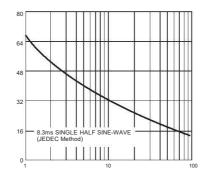
1) Measured at 1 MHz and applied reverse voltage of 4 V DC.

2) Thermal resistance from junction to lead vertical P.C.B mounted, 0.5" (12.7 mm) lead length.

## **SR320 THRU SR3200**







NUMBER OF CYCLES AT 60Hz FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT