



## SCHOTTKY BARRIER RECTIFIER

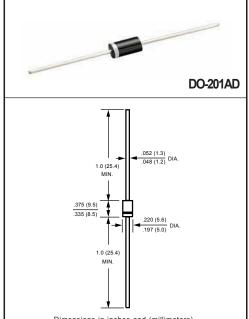
VOLTAGE RANGE 20 to 200 Volts CURRENT 3.0 Amperes

### **FEATURES**

- \* High reliability
- \* Low switching loss \* Low forward voltage drop
- \* High current capability
- \* High switching capability

#### **MECHANICAL DATA**

- \* Epoxy: Device has UL flammability classification 94V-O
- \* Case: Molded plastic
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting: position: Any
- \* Weight: 1.18 grams



Dimensions in inches and (millimeters)

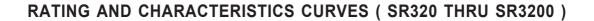
#### Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

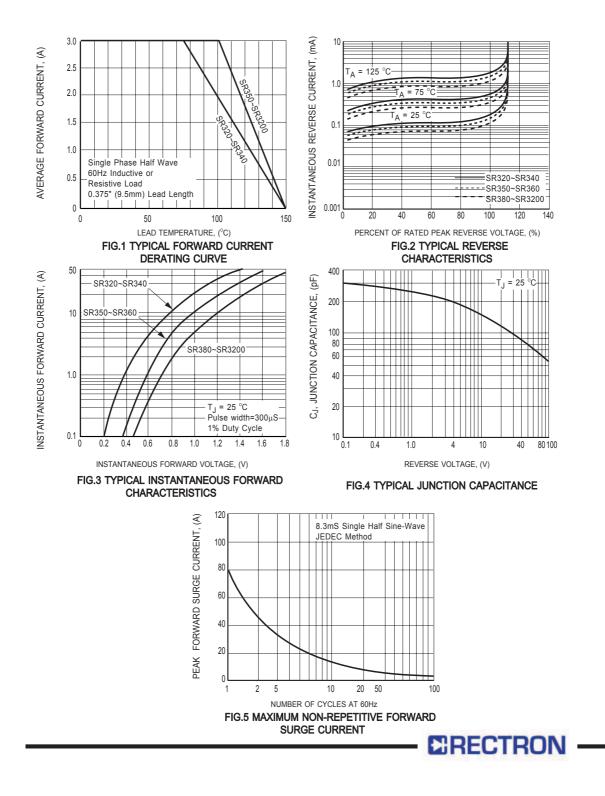
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

RATINGS	SYMBOL	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	Ι <sub>ο</sub>	3.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	80									Amps
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	40									°c/w
	R <sub>θJL</sub>	10									
Typical Junction Capacitance (Note 3)	CJ	CJ 200									pF
Operating Temperature Range	TJ	150									٥C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150									٥C

CHARACTERISTICS		SYMBOL	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC		VF	.55			.75		.85			Volts	
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	-	0.2									mA
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	'R	2									
NOTES : 1. Thermal Resistance : At 9.5mm lead lengths, PCB mounted.									2006-11			

NOTES: 1. Thermal Resistance : At 9.5mm lead lengths, PCB mounted.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".





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