



SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 5.0 Ampere

FEATURES

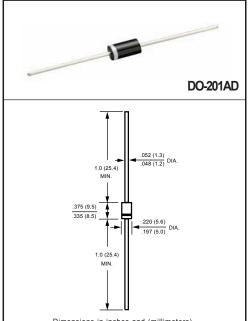
- * High reliability
- * Low switching loss
- * Low forward voltage drop
- * High current capability
- * High switching capability

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

- * Case: Molded plastic
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting: position: Any
- * Weight: 1.18 grams



Dimensions in inches and (millimeters)

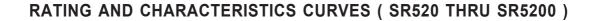
MAXIMUM RATINGS (@ Ta=25 °C, unless otherwise noted)

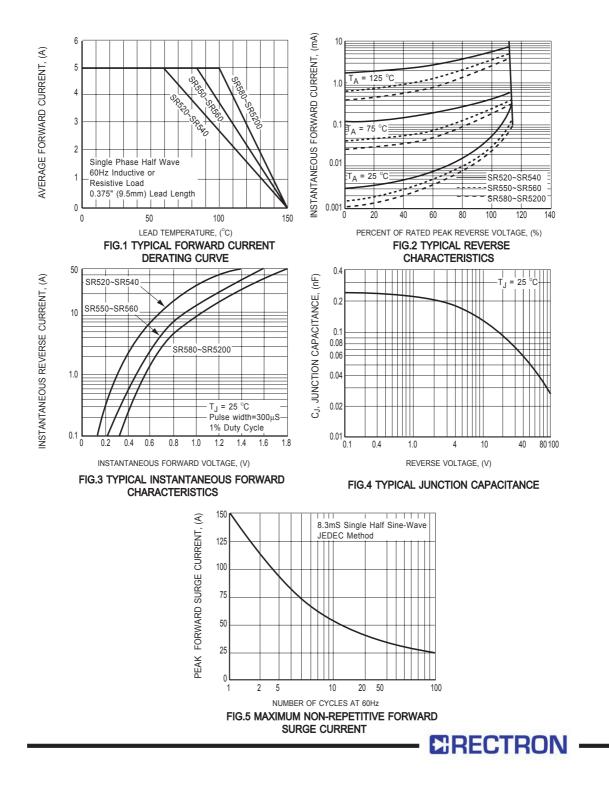
For capacitive load, derate current by 20%.

RATINGS	SYMBOL	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	SR5150	SR5200	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	Io	5.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150									Amps
Typical Thermal Resistance (Note 1)	R _{θJA}	25									°C/W
	R _{θJL}	8									
Typical Junction Capacitance (Note 3)	CJ	200									pF
Operating Temperature Range	TJ	150									٥C
Storage Temperature Range	T _{STG}	-55 to + 150									٥C
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless o	therwise n	oted)									
	a										

CHARACTERISTICS		SYMBOL	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	SR5150	SR5200	UNITS
Maximum Instantaneous Forward Voltage at 5.0A DC		VF	.55			.75		.85				Volts
Maximum Average Reverse Current	@T _A = 25°C	-	0.2									mA
at Rated DC Blocking Voltage	@T _A = 100°C	IR IR	2									mA
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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