



SCHOTTKY BARRIER RECTIFIER

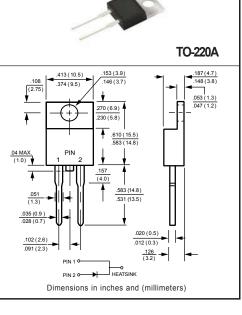
VOLTAGE RANGE 20 to 200 Volts CURRENT 8.0 Amperes

FEATURES

- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: To-220A molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 2.24 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

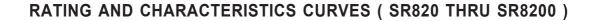
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

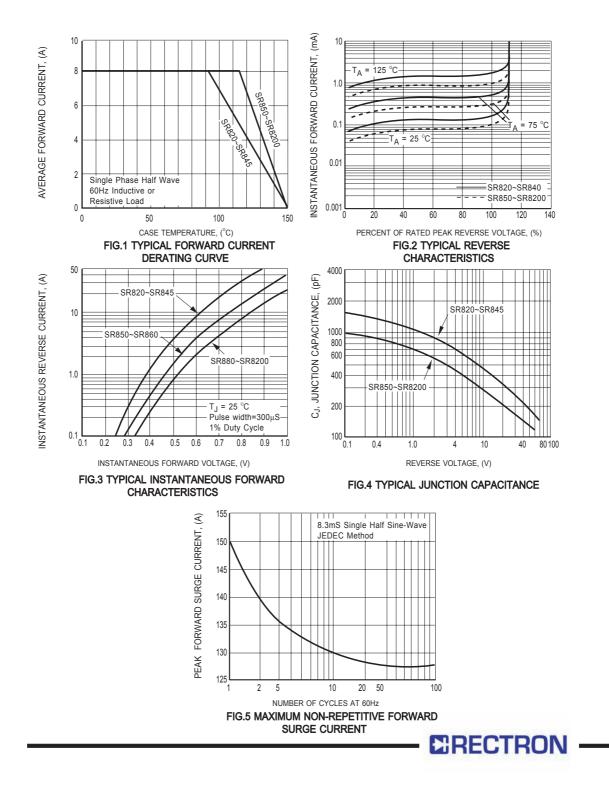
RATINGS	SYMBOL	SR820	SR830	SR835	SR840	SR845	SR850	SR860	SR880	SR8100	SR8150	SR8200	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	35	40	45	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	25	28	32	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	35	40	45	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	Ι _Ο	8.0											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 _{θJC}	2.5											°C/W
	R _{θJA}	60											
Typical Junction Capacitance (Note 3)	CJ	700 450							pF				
Operating Temperature Range	TJ	150										٥C	
Storage Temperature Range	T _{STG}	-55 to + 150											٥C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

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CHARACTERISTICS			SR820	SR830	SR835	SR840	SR845	SR850	SR860	SR880	SR8100	SR8150	SR8200	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC			.65 .75						.85					
Maximum Average Reverse Current	@T _A = 25°C		0.2											mA
at Rated DC Blocking Voltage	@T _A = 100°C	I _R	2											mA
NOTES: 1. Thermal Resistance : Heat-sink mounted.										2006-11				

Thermal Resistance : Heat-sink mounted.
Suffix "R" for Reverse Polarity.
Measured at 1 MHz and applied reverse voltage of 4.0 volts.
"Fully ROHS compliant", "100% Sn plating (Pb-free)".





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