



SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 8.0 Amperes

FEATURES

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

MECHANICAL DATA

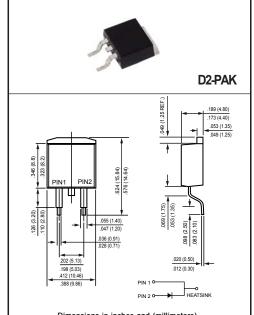
* Epoxy: Device has UL flammability classification 94V-O

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: 1.35 grams



Dimensions in inches and (millimeters)

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

For capacitive load, derate current by 20%.

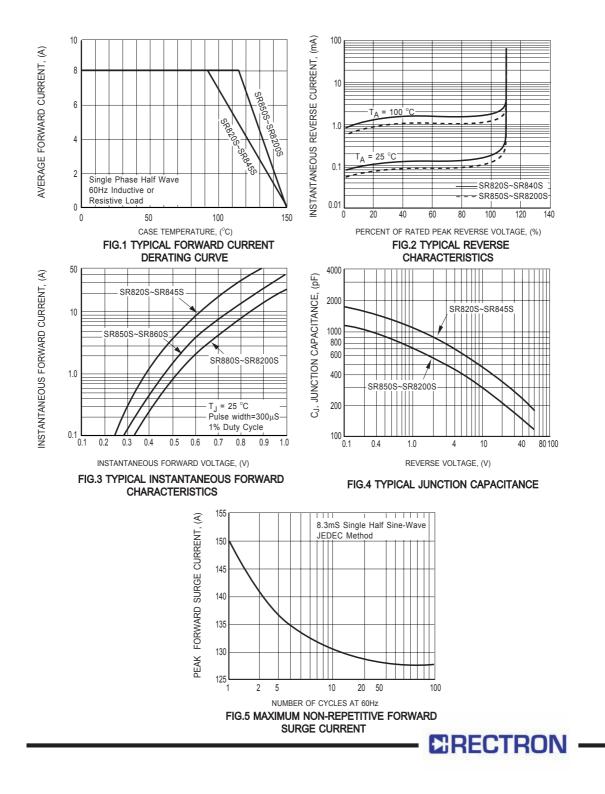
RATINGS	SYMBOL	SR820S	SR830S	SR835S	SR840S	SR845S	SR850S	SR860S	SR880S	SR8100S	SR8150S	SR8200S	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	35	40	45	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	25	28	32	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	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)	$R_{\theta JA}$	60											°C/W
	R _{θJC}	3											
Typical Junction Capacitance (Note 2)	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)

CHARACTERISTICS		SYMBOL	SR820S	SR830S	SR835S	SR840S	SR845S	SR850S	SR860S	SR880S	SR8100S	SR8150S	SR8200S	UNITS
Maximum Instantaneous Forward Voltag	VF	.65					.75		.85			Volts		
Maximum Average Reverse Current	@T _A = 25°C		0.2											mA
at Rated DC Blocking Voltage	@T _A = 100°C	I IR	2											mA
NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.											2007-3			

NOTES: 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
4. Suffix "F" for Reverse Polarity.
5. Suffix "K" for D-PAK Pkg.





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