

SR820S THRU SR8200S

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 8.0 Amperes

FEATURES

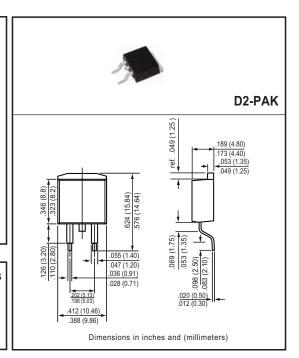
- * High reliability
- * Low switching loss
- * Low forward voltage drop
- * High current capability
- * High switching capability

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



RATINGS	SYMBOL	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	I _O	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 Current Squared Time	I ² T	93.37							A ² S				
Typical Thermal Resistance (Note 1)		60										00/14/	
Typical Thermal Resistance (Note 1)	R ₀ JC	3										°C/W	
Typical Junction Capacitance (Note 2)	CJ	700 450						pF					
Operating Temperature Range	TJ	150						٥C					
Storage Temperature Range	TstG	-55 to + 150						٥С					

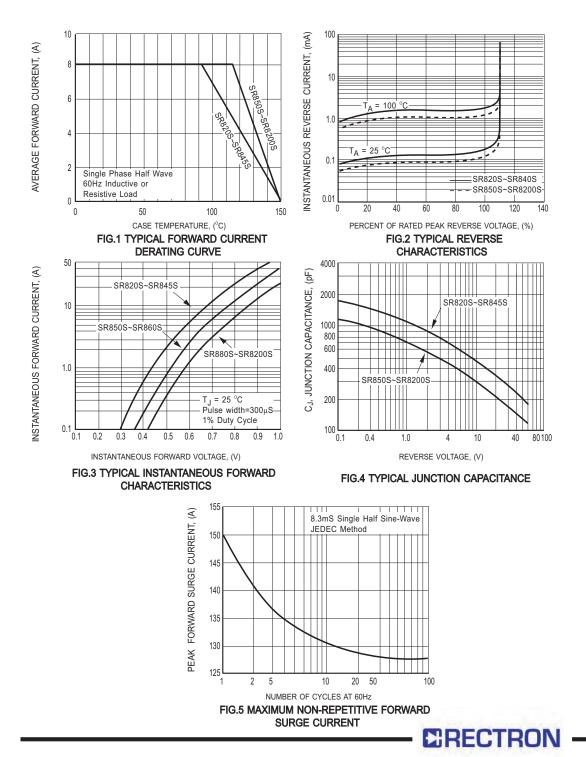
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERIS	SYMBOL	SR820S	SR830S	SR835S	SR840S	SR845S	SR850S	SR860S	SR880S	SR8100S	SR8150S	SR8200S	UNITS
Maximum Instantaneous Forward Voltage	V _F	.65			.75		.85			Volts			
Maximum Average Reverse Current	@T _A = 25°C		0.2									mA	
at Rated DC Blocking Voltage	@T _A = 100°C	IR.	2										mA

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 "R" for Reverse Polarity.
5. Suffix "K" for D-PAK Pkg.

2015-12 RFV: B7

RATING AND CHARACTERISTICS CURVES (SR820S THRU SR8200S)



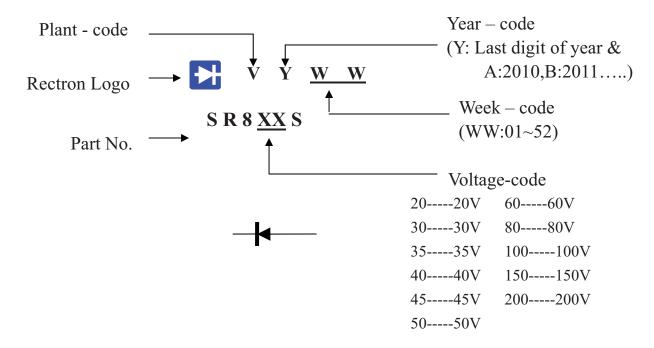


Attachment information about SR8XXS

1. Internal Circuit



2. Marking on the body



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
D2PAK	-C	2,000	550*140*92	572*308*120	4,000	10.20

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