

SR2020CS THRU SR20200CS

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 20.0 Ampere

FEATURES

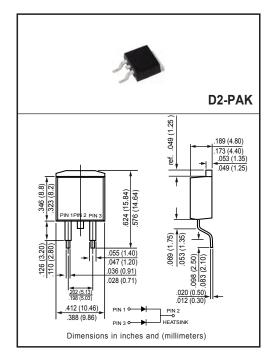
- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: To-220 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%.



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

RATINGS	SYMBOL	SR2020CS	SR2030CS	SR2035CS	SR2040CS	SR2045CS	SR2050CS	SR2060CS	SR2080CS	SR20100CS	SR20150CS	SR20200CS	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	20										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 _{0JC}	2.0										°C/W	
Typical Thermal Resistance (Note 1)		40									J 7 11		
Typical Junction Capacitance (Note 3)	CJ	700 500							pF				
Operating Temperature Range	TJ	150									٥C		
Storage Temperature Range	T _{STG}	-55 to + 150										٥C	

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

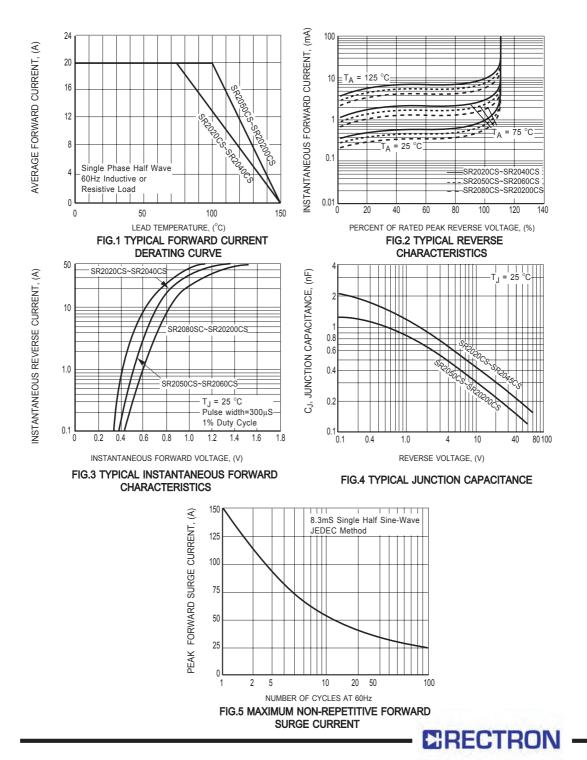
CHARACTERISTICS		SYMBOL	SR2020CS SR2030	CS SR2035CS	SR2040CS	SR2045CS	SR2050CS	SR2060CS	SR2080CS	SR20100CS	SR20150CS	SR20200CS	UNITS
Maximum Instantaneous Forward Voltage at 10.0A DC		VF	.65				.7	5		.85			Volts
Maximum Average Reverse Current	@T _A = 25°C	1-	1.0										mA
at Rated DC Blocking Voltage	@T _A = 100°C	IR					10)					mA

NOTES: 1. Thermal Resistance: Heat-sink mounted.

- 2. Suffix "A" = Common Anode.
 3. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
 4. "Fully ROHS compliant","100% Sn plating (Pb-free)".

2009-04 REV: 0

RATING AND CHARACTERISTICS CURVES (SR2020CS THRU SR20200CS)



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