

SR3020C THRU SR30200C

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 30 Ampere

FEATURES

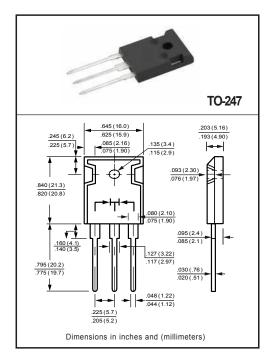
- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: To-247 molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 6.10 grams

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%.



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

RATINGS	SYMBOL	SR30200	SR3030C	SR3035C	SR3040C	SR3045C	SR3050C	SR3060C	SR3080C	SR30100C	SR30150C	SR30200C	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	30										Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300										Amps	
Typical Thermal Resistance (Note 1)	R _{θJC}	1.5											°C/W
	R _{θJA}	30											
Operating Temperature Range	TJ	150								٥C			
Storage Temperature Range	T _{STG}	-55 to + 150										٥C	

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

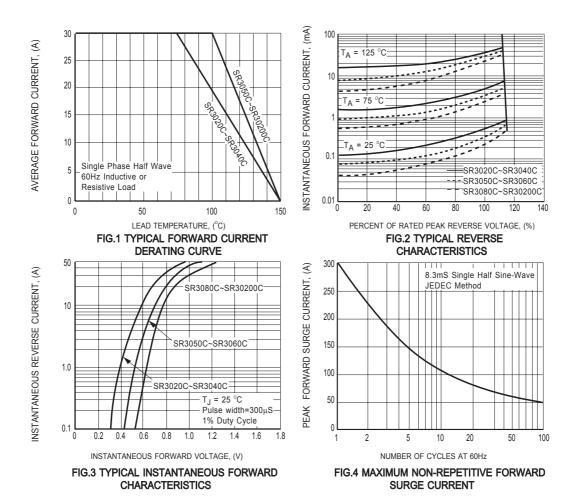
CHARACTERISTICS		SYMBOL	SR3020CSR30300	SR3035C SF	R3040C SR:	3045C	SR3050C	SR3060C	SR3080C	SR30100C	SR30150C	SR30200C	UNITS
Maximum Instantaneous Forward Voltag	V _F		.65			.75			3.	35		Volts	
Maximum Average Reverse Current	@T _A = 25°C	1_	1.0										mA
at Rated DC Blocking Voltage	@T _A = 100°C	IR			,		10					,	mΑ

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

2. Suffix "A" = Common Anode.
3."Fully ROHS compliant", "100% Sn plating (Pb-free)".

2006-11 REV:B

RATING AND CHARACTERISTICS CURVES (SR3020C THRU SR30200C)





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