

SR2020C THRU SR2060C

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 60 Volts CURRENT 20 Amperes

FEATURES

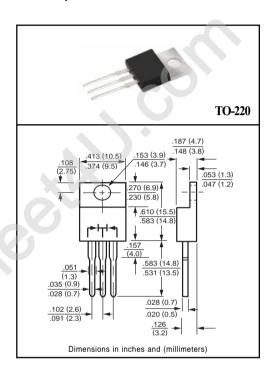
- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High switching capability
- * High surge capability
- * High reliability

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 (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	SR2020C	SR2030C	SR2035C	SR2040C	SR2045C	SR2050C	SR2060C	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	35	40	45	50	60	Volts
Maximum RMS Voltage	VRMS	14	21	25	28	32	35	42	Volts
Maximum DC Blocking Voltage	VDC	20	30	35	40	45	50	60	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	lo	20						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150					X	Amps	
Typical Thermal Resistance (Note 1)	RθJC	3					°C/W		
Typical Junction Capacitance (Note 3)	Cı	700 500				00	pF		
Operating Temperature Range	TJ	-55 to + 150						۰C	
Storage Temperature Range	Tstg	-55 to + 150							°C

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

CHARACTERISTICS		SYMBOL	SR2020C SR2030C SR20	35C SR2040C SR204	C SR2050C SR2060C	UNITS
Maximum Instantaneous Forward Voltage at 10.0A DC		VF	.65		.75	Volts
Maximum Average Reverse Current	@Tc = 25°C	2		10		mAmps
at Rated DC Blocking Voltage	@Tc = 100°C	IK	.7		mAmps	

NOTES: 1. Thermal Resistance Junction to Case.

- 2. Suffix "A" = Common Anode.
- 3. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTIC CURVES (SR2020C THRU SR2060C)

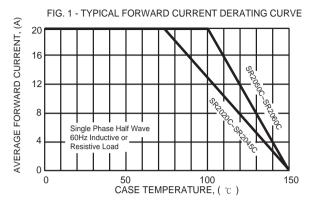


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PEAK FORWARD SURGE CURRENT, (A) 8.3ms Single Half Sine-Wave (JEDED Method) NUMBER OF CYCLES AT 60Hz

