

SR3020C THRU SR30200C

SCHOTTKY BARRIER RECTIFIER

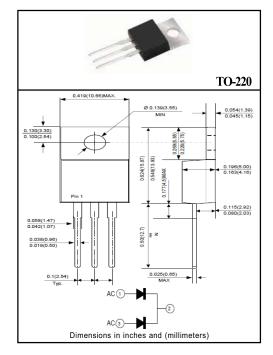
VOLTAGE RANGE 20 to 200 Volts CURRENT 30 Amperes

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.

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	Io	30						Amps					
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300						Amps					
Typical Current Squarad Time	I ² t	373.3						A ² /Sec					
Typical Thermal Resistance (Note 1)	Røjc	1.5										°C/W	
Typical Thermal Resistance (Note 1)	R _{θJA}	30											
Operating Temperature Range	ΤJ	150						٥C					
Storage Temperature Range	T _{STG}	-55 to + 150					٥C						

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

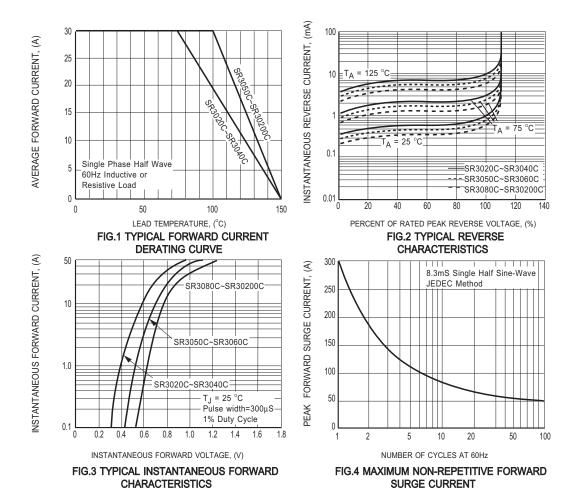
CHARACTERIS	SYMBOL	SR3020CSR3030C	SR3035C	SR3040C	SR3045C	SR3050C	SR3060C	SR3080C	SR30100C	SR30150C	SR30200C	UNITS
Maximum Instantaneous Forward Voltage at 15.0A DC V			.65			.7	5	.80			Volts	
Maximum Average Reverse Current	@T _A = 25°C		1.0								mA	
at Rated DC Blocking Voltage	@T _A = 100°C	I _R	10									mA

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

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

2015-07 REV:O

RATING AND CHARACTERISTICS CURVES (SR3020C THRU SR30200C)



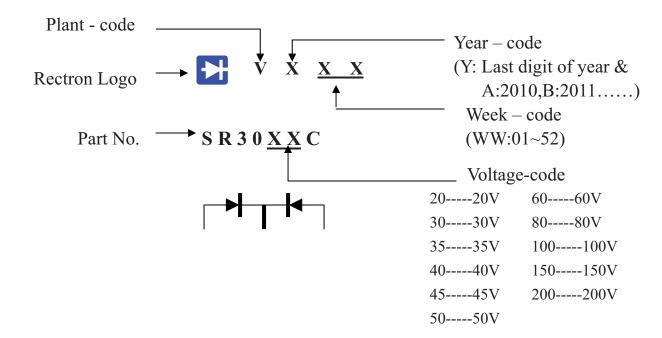


Attachment information about SR30XXC

1. Internal Circuit



2. Marking on the body



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

PACKAGE	PACKING CODE	PACKING CODE EA PER BOX		CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)	
(I)TO-220/TO-220(A	-C	2,000	550*140*92	572*308*120	4,000	11.80	

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