

SR1620C **THRU** SR16200C

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 200 Volts CURRENT 16.0 Ampere

FEATURES

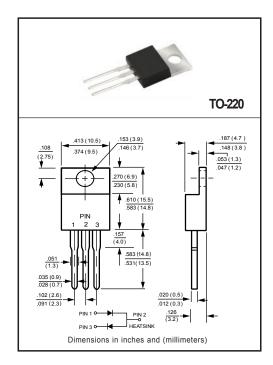
- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

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	SR16200	SR1630C	SR1635C	SR1640C	SR1645C	SR1650C	SR1660C	SR1680C	SR16100C	SR16150C	SR162000	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	16.0											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 _{θJC}	2.0											°C/W
Typical Thermal Nesistance (Note 1)		40									0,11		
Typical Junction Capacitance (Note 3)	CJ	700 500							pF				
Operating Temperature Range	TJ	150									٥C		
Storage Temperature Range	T _{STG}	-55 to + 150										٥C	

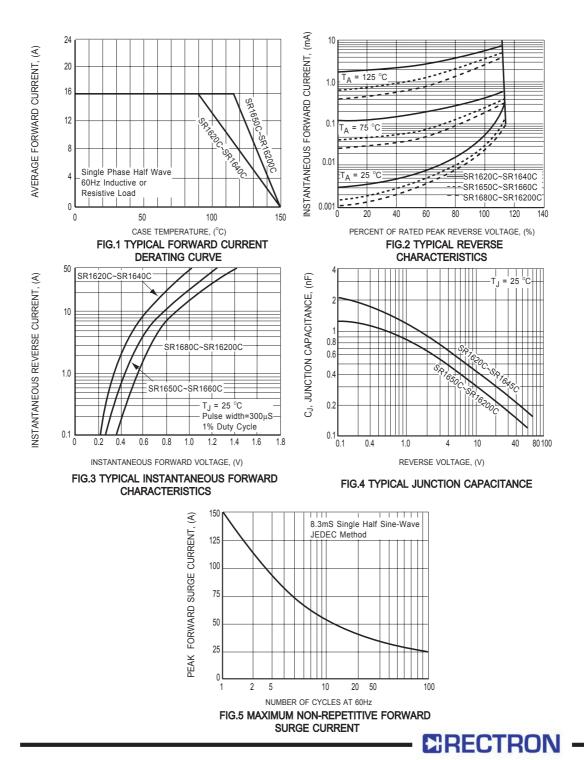
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	SR1620CSR1630C	SR1635C	SR1640C	SR1645C	SR1650C	SR1660C	SR1680C	SR16100C	SR16150C	SR16200C	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	.65			.7	5	.85			Volts		
Maximum Average Reverse Current	@T _A = 25°C	1-	0.2									mA	
at Rated DC Blocking Voltage	@T _A = 100°C	IR.					2	!					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)".

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RATING AND CHARACTERISTICS CURVES (SR1620C THRU SR16200C)



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