



SCHOTTKY BARRIER RECTIFIER

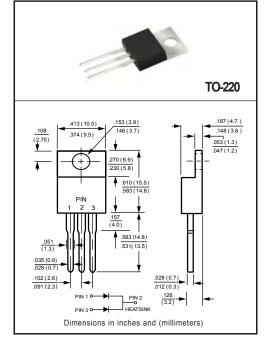
VOLTAGE RANGE 20 to 200 Volts CURRENT 16.0 Ampere

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%.

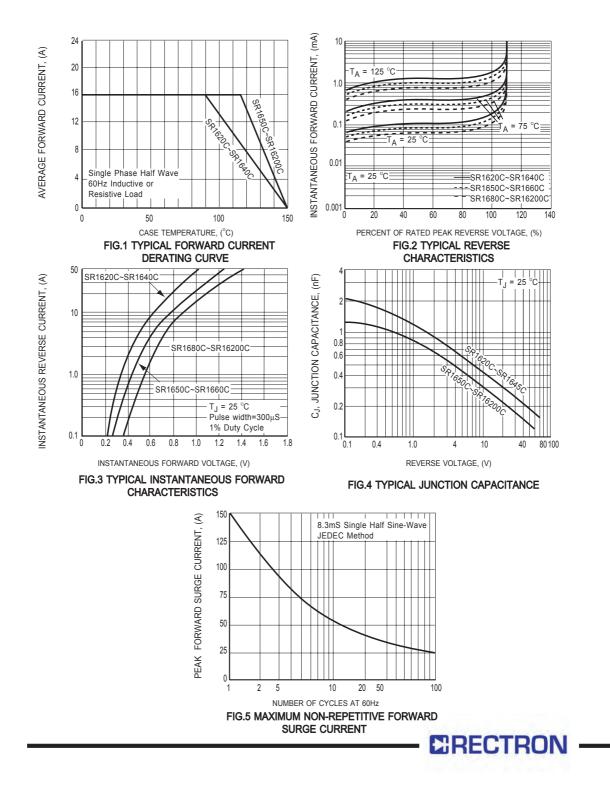
MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted) RATINGS SYMBOL SR1620CSR1630C SR1635C SR1640C SR1645C S SR1680C SR16100C SR16150C SR16200C UNITS SR1650C SR1660C Maximum Recurrent Peak Reverse Voltage V_{RRM} 20 30 35 40 45 50 60 80 100 150 200 Volts Maximum RMS Voltage V_{RMS} 32 42 14 21 25 28 35 56 70 105 140 Volts Maximum DC Blocking Voltage 20 30 35 40 45 50 60 80 100 150 200 Volts V_{DC} Maximum Average Forward Rectified Current 16.0 Amps I_0 at Derating Case Temperature Peak Forward Surge Current 8.3 ms single half sine-wave I_{FSM} 150 Amps superimposed on rated load (JEDEC method) Rqjc 2.0 °C/W Typical Thermal Resistance (Note 1) RqJA 40 Typical Junction Capacitance (Note 3) 700 500 рF C.I Operating Temperature Range $T_{\rm J}$ 150 ٥C -55 to + 150 °C Storage Temperature Range $\mathsf{T}_{\mathsf{STG}}$

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

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CHARACTERISTICS		SYMBOL	SR1620CSR163	C SR16350	SR1640C	SR1645C	SR1650C	SR1660C	SR1680C	SR16100C	SR16150C	SR16200C	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	.65			.75			.85			Volts	
Maximum Average Reverse Current	@T _A = 25°C	1-	0.2										mA
at Rated DC Blocking Voltage	@T _A = 100°C	I _R	2										mA
NOTES: 1. Thermal Resistance : Heat-sink mounted. 2. Suffix "A" = Common Anode.										2008-11 REV: A			

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





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