



### SCHOTTKY BARRIER RECTIFIER

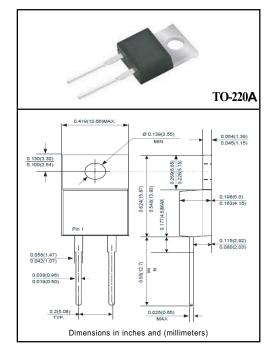
VOLTAGE RANGE 20 To 200 Volts CURRENT 10.0 Ampere

### **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-220A 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

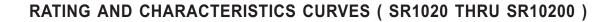
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

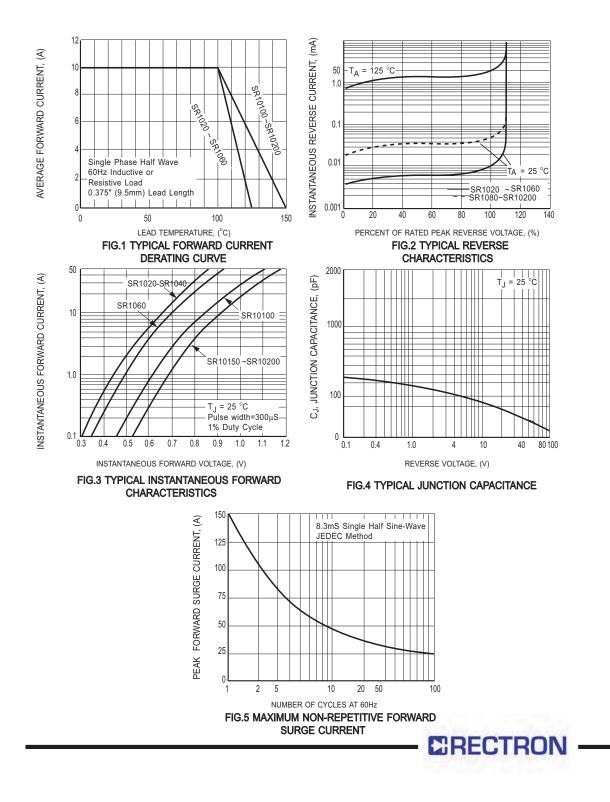
RATINGS	SYMBOL	SR1020	SR1040	SR1060	SR10100	SR10150	SR10200	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	40	60	100	150	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	28	42	70	105	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	40	60	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	I <sub>0</sub>	10.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	150						Amps
Typical Thermal Resistance (Note 1)	Røjc	3.0						
	R <sub>θJA</sub>	60						
Typical Junction Capacitance (Note 3)	CJ	450					pF	
Operating Temperature Range	TJ	150						٥C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150						۰C

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

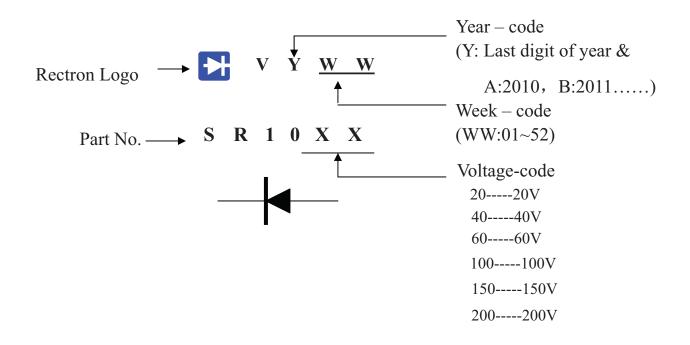
CHARACTERI	SYMBOL	SR1020	SR1040	SR1060	SR10100	SR10150	SR10200	UNITS	
Maximum Instantaneous Forward Voltage at 10.0A DC		VF	.65 .70		.85	.92		Volts	
Maximum Average Reverse Current	@T <sub>A</sub> = 25°C	-	0.05			0.01			mA
at Rated DC Blocking Voltage	@T <sub>A</sub> = 125°C	IR	50						
NOTES: 1. Thermal Resistance : Heat-sink mounted. 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.									2016-07 REV: A

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





## **Marking Description**



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

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

### **DISCLAIMER NOTICE**

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

