

## DC COMPONENTS CO., LTD.

#### RECTIFIER SPECIALISTS

SR1020 THRU SR10200

# TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE - 20 to 200 Volts CURRENT - 10 Amperes

#### **FEATURES**

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

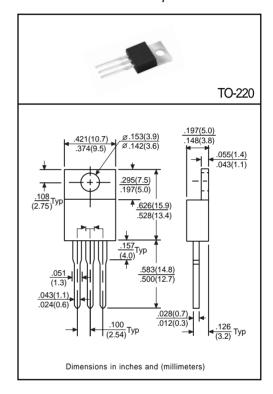
#### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: As marked\* Mounting position: Any
- \* Weight: 2.24 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at  $25^{\circ}\text{C}$  ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



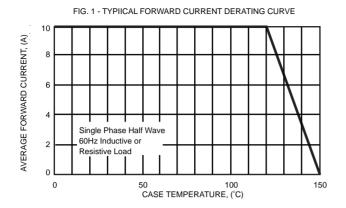
		SYMBOL	SR1020	SR1030	SR1040	SR1050	SR1060	SR1080	SR10100	SR10150	SR10200	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature		lo	10									Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150								Amps	
Maximum Instantaneous Forward Voltage at 5.0A DC		VF	0.70		0.	0.80		.85	0.95		Volts	
Maximum DC Reverse Current at	@Tc = 25°C		2.0									mAmps
Rated DC Blocking Voltage	@Tc = 100°C	lR	100									
Typical Thermal Resistance (Note 1)		Rejc	3.0									°C/W
Typical Junction Capacitance (Note 2)		Cı	700									pF
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150									٥С

Note: 1. Thermal Resistance Junction to Case per leg.

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. Suffix "A" = Common Anode
- 4. Suffix "F" Stands for "ITO-220" package. (e.g.: SR1020F, SR1030F, .....etc)

REV-3,MAR,2017 1 www.dccomponents.com

### **RATING AND CHARACTERISTIC CURVES (SR1020 THRU SR10200)**



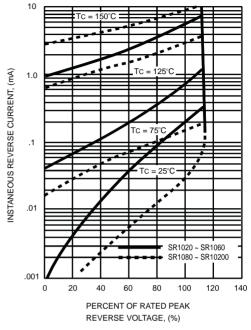
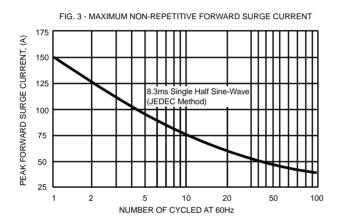
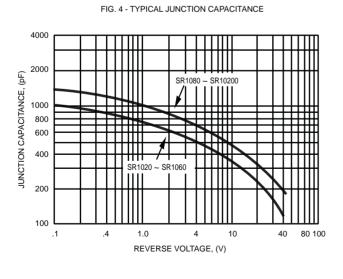
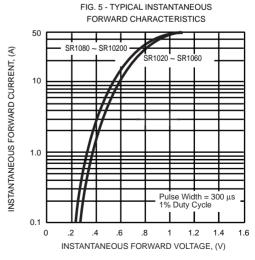


FIG. 2 - TYPIICAL REVERSE CHARACTERISTICS







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