



# SR1020 THRU SR10100 10 A Schottky Barrier Rectifiers

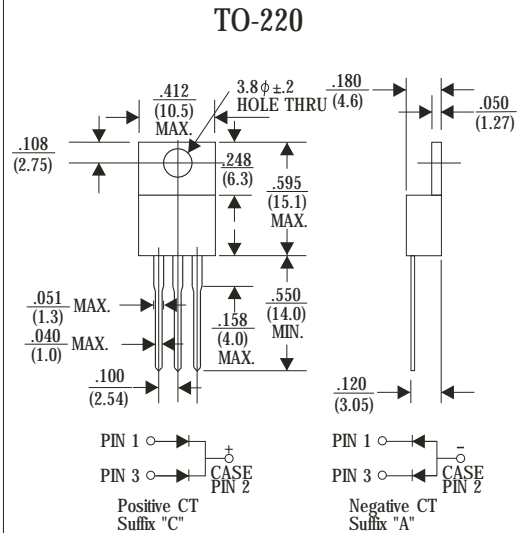
**Voltage Range 20 to 100 Volts  
Current 10.0 Amperes**

## Features

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability
- \* Epitaxial construction

## Mechanical Data

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 2.24 grams



## Maximum Ratings and Electrical Characteristics

Rating 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%

Type Number	SR1020	SR1030	SR1040	SR1050	SR1060	SR1080	SR10100	Units
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	v
Maximum RMS Voltage	14	21	28	35	42	56	70	v
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	v
Maximum Average Forward Rectified Current See Fig. 1	10							A
Peak Forward Surge Current, 8.3 ms Single Half Sinewave - Superimposed on Rated Load method (JEDEC)	130				100			A
Maximum Instantaneous Forward Voltage At 5.0A	0.65			0.75		0.85		V
Maximum D.C. Reverse Current @ T <sub>A</sub> =25°C	1							mA
At Rated DC Blocking Voltage @ T <sub>A</sub> =100°C	100							mA
Typical Junction Capacitance (Note 1)	700			460		280		pF
Typical Thermal Resistance R <sub>JA</sub> (Note 2)	3.0							°C/W
Operating Junction Temperature Range T <sub>J</sub>	-50+125							°C
Storage Temperature Range T <sub>STG</sub>	-65+150							°C

### Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
2. Thermal Resistance Junction to Case



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### RATING AND CHARACTERISTIC CURVES (SR1020 THRU SR10100)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

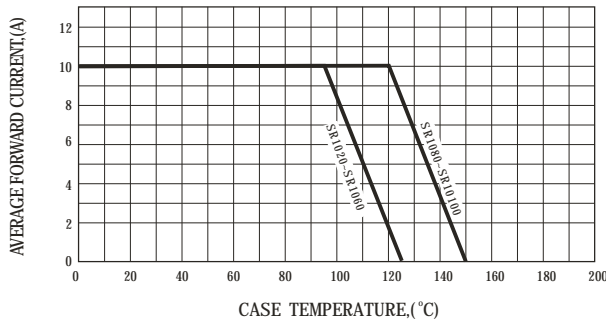


FIG.2-TYPICAL FORWARD CHARACTERISTICS

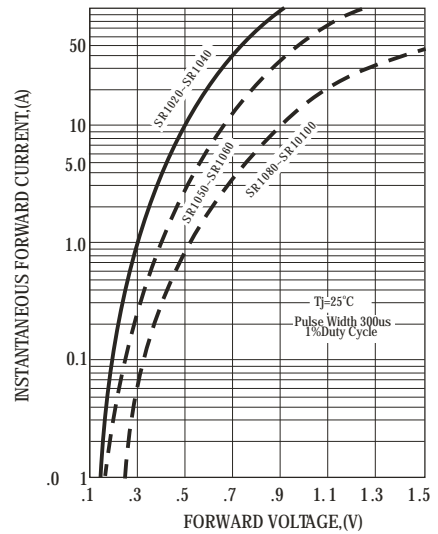


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

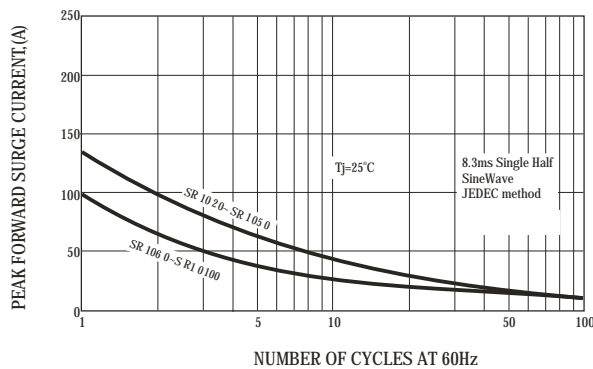


FIG.4-TYPICAL JUNCTION CAPACITANCE

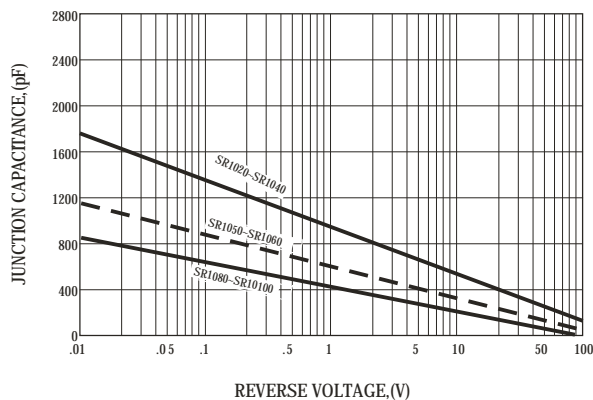


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

