



# SR120S THRU SR1100S

## 1 A Schottky Barrier Rectifiers

**Voltage Range 20 to 100 Volts**  
**Current 1.0 Amperes**

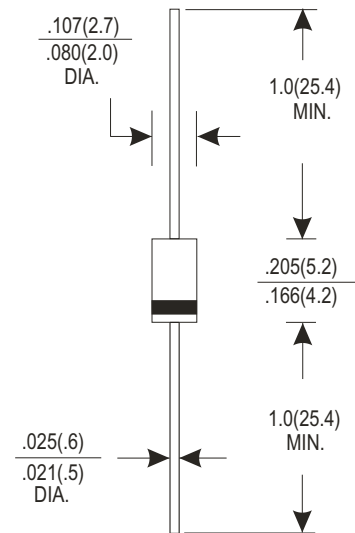
### Features

- \* 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: 0.22 grams

**A-405**



Dimensions in inches and (millimeters)

### 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	SR120S	SR130S	SR140S	SR150S	SR160S	SR180S	SR1100S	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	1.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sinewave - Superimposed on Rated Load method (JEDEC)	25							A
Maximum Instantaneous Forward Voltage @ 1.0A	0.55		0.70		0.85			V
Maximum D.C. Reverse Current @ T <sub>A</sub> =25°C	1.0							mA
At Rated DC Blocking Voltage @ T <sub>A</sub> =100°C	10							mA
Typical Junction Capacitance (Note 1)	110							pF
Typical Thermal Resistance R <sub>θJA</sub> (Note 2)	10							°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 Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

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### RATING AND CHARACTERISTIC CURVES (SR120S THRU SR1100S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

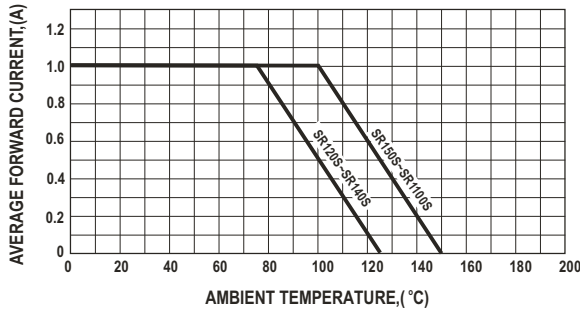


FIG.2-TYPICAL FORWARD CHARACTERISTICS

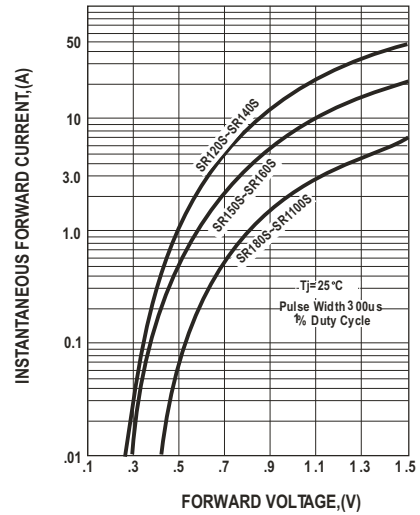


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

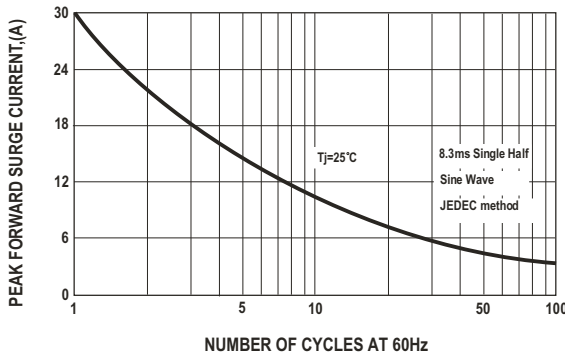


FIG. 4-TYPICAL JUNCTION CAPACITANCE

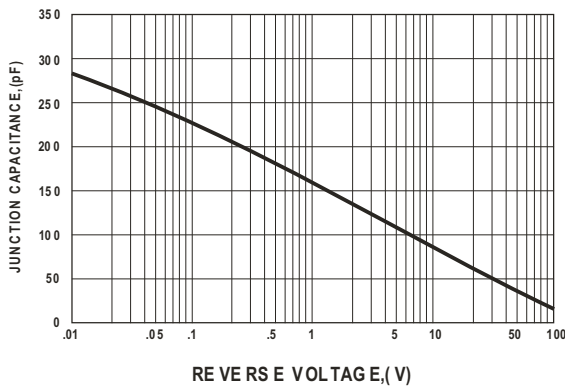


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

