

SR5150 THRU SR5200

DO-201AD

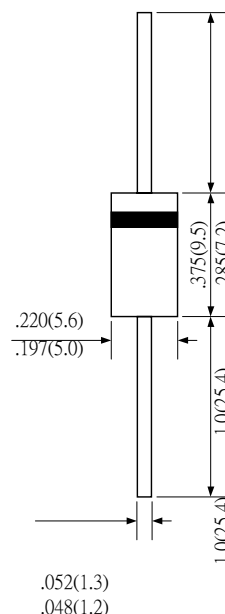
□ Features

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

CURRENT 5.0 Ampere

□ 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 : 1.10 grams



□ Maximum ratings and Electrical characteristics

| TYPE                                                                                |            | SB5150    | SB5200 | UNIT |
|-------------------------------------------------------------------------------------|------------|-----------|--------|------|
| Maximum Recurrent Peak Reverse Voltage                                              |            | 150       | 200    | V    |
| Maximum RMS Voltage                                                                 |            | 105       | 140    | V    |
| Maximum DC Blocking Voltage                                                         |            | 150       | 200    | V    |
| Maximum Average Forward Rectified Current                                           |            | 5.0       |        | A    |
| Peak Forward SSurge Current, 8.3ms single half sine-wave superimposed on rated load |            | 100       |        | A    |
| Maximum Instantaneous Forward Voltage at 5.0A                                       |            | 0.85      | 0.87   | V    |
| Maximum DC Reverse Current at Rated DC Blocking Voltage                             | Ta = 25°C  | 0.01      |        | mA   |
|                                                                                     | Ta = 100°C | 10        |        |      |
| Typical Junction Capacitance                                                        |            | 380       |        | pF   |
| Typical Thermal Resistance RθJA                                                     |            | 10        |        | °C/W |
| Operating Temperature Range TJ                                                      |            | -50 - 125 |        | °C   |
| Storage Temperature Range TSTG                                                      |            | -65 - 150 |        | °C   |

Note: Pulse Test : 380μs pulse width, 2% duty cycle

# SCHOTTKY BARRIER RECTIFIER

SR502 THRU SR510

VOLTAGE RANGE

20 to 100 Volts

CURRENT

5.0 Ampere

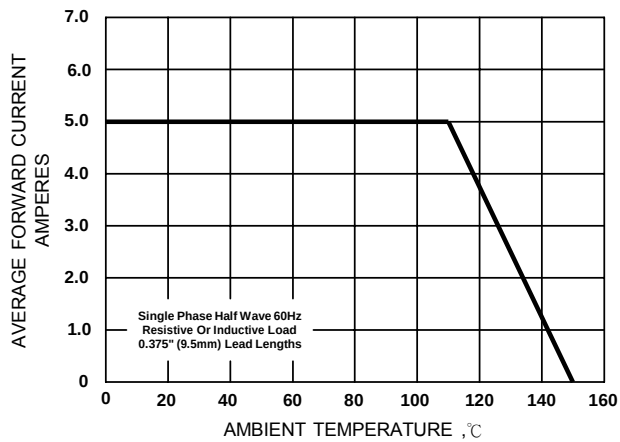


Figure 1. Forward Current Derating Curve

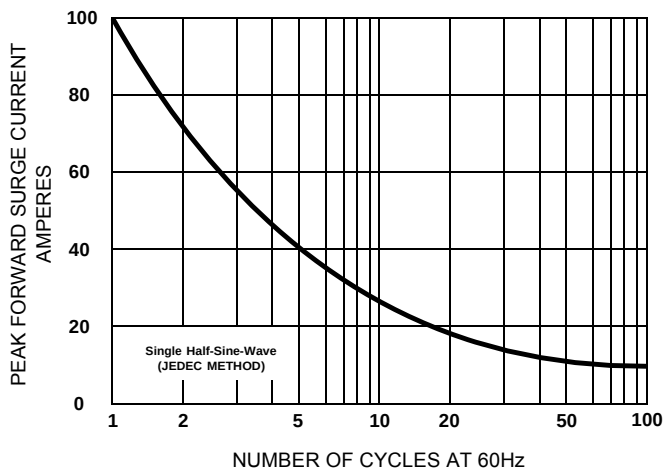


Figure 2. Maximum Non-repetitive Surge Current

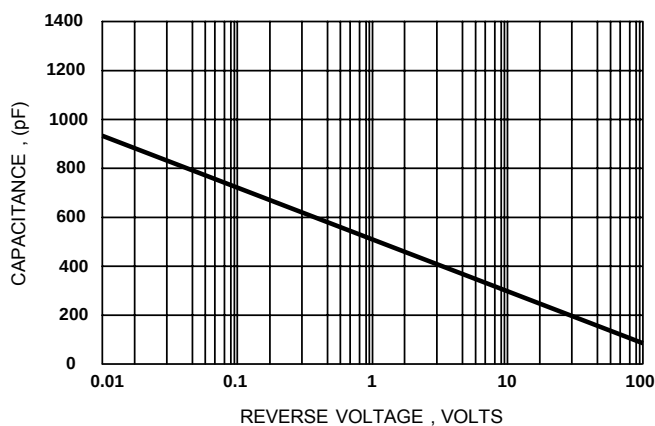


Figure 3. Typical Junction Capacitance

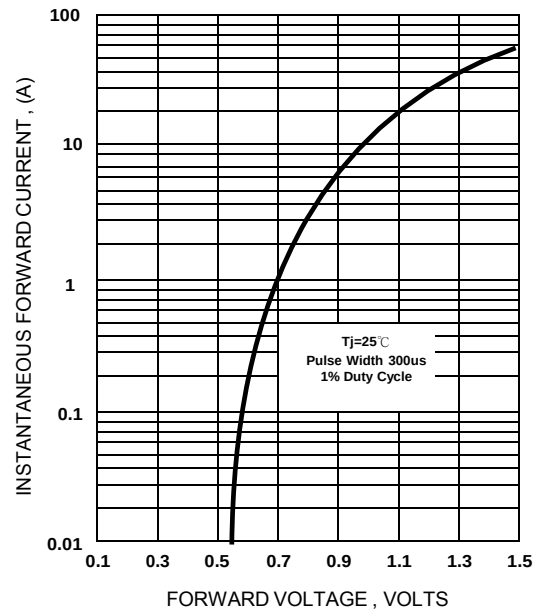


Figure 4. Typical Forward Characteristics

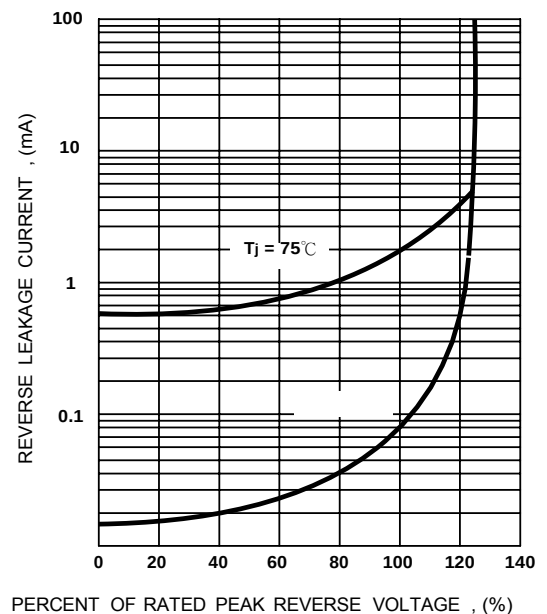


Figure 5. Typical Reverse Characteristics