

DO-201AD Axial Schottky Barrier Rectifier

Features

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

Applications

These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping.

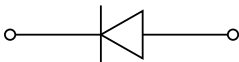
Mechanical Data

- Case: DO-201AD  
Molding compound meets UL 94V-0 flammability rating
- Terminals: Solder plated, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Cathode line denotes the cathode end

Function Diagram

Reverse Voltage  
20-100 V  
Forward Current  
5 Ampere

DO-201AD



Maximum Ratings (Ta=25°C Unless otherwise specified)

| PARAMETER                                                                              | SYMBOL             | UNIT  | SR520      | SR530 | SR540 | SR550 | SR560 | SR580 | SR5100 |
|----------------------------------------------------------------------------------------|--------------------|-------|------------|-------|-------|-------|-------|-------|--------|
| Device marking code                                                                    |                    |       | SR520      | SR530 | SR540 | SR550 | SR560 | SR580 | SR5100 |
| Maximum Repetitive Peak Reverse Voltage                                                | V <sub>RRM</sub>   | V     | 20         | 30    | 40    | 50    | 60    | 80    | 100    |
| Maximum RMS Voltage                                                                    | V <sub>RMS</sub>   | V     | 14         | 21    | 28    | 35    | 42    | 56    | 70     |
| Maximum DC blocking Voltage                                                            | V <sub>DC</sub>    | V     | 20         | 30    | 40    | 50    | 60    | 80    | 100    |
| Maximum Average Forward Rectified Current @ 60Hz sinewave, Resistance load, TL (Fig.1) | I <sub>F(AV)</sub> | A     | 5.0        |       |       |       |       |       |        |
| Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave                     | I <sub>FSM</sub>   | A     | 150        |       |       |       |       |       |        |
| Storage temperature                                                                    | T <sub>stg</sub>   | °C    | -55 ~ +150 |       |       |       |       |       |        |
| Junction temperature                                                                   | T <sub>j</sub>     | °C    | -55 ~ +150 |       |       |       |       |       |        |
| Typical Thermal Resistance                                                             | R <sub>θJ-A</sub>  | °C /W | 25         |       |       |       |       |       |        |
|                                                                                        | R <sub>θJ-L</sub>  | °C /W | 10         |       |       |       |       |       |        |

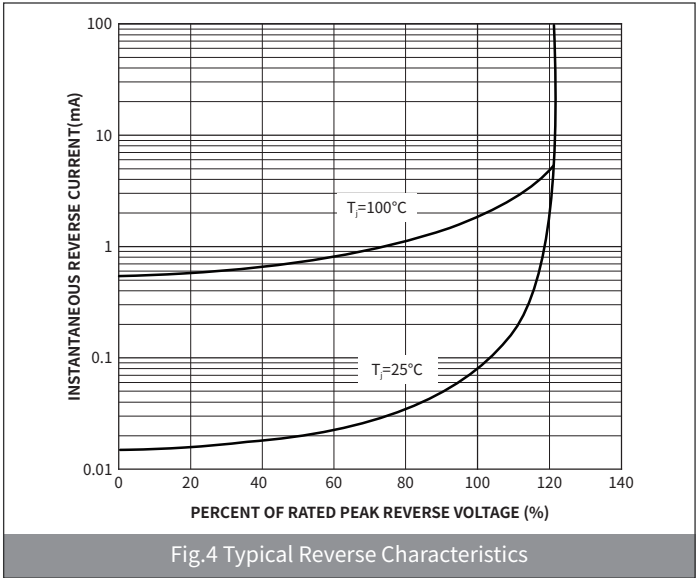
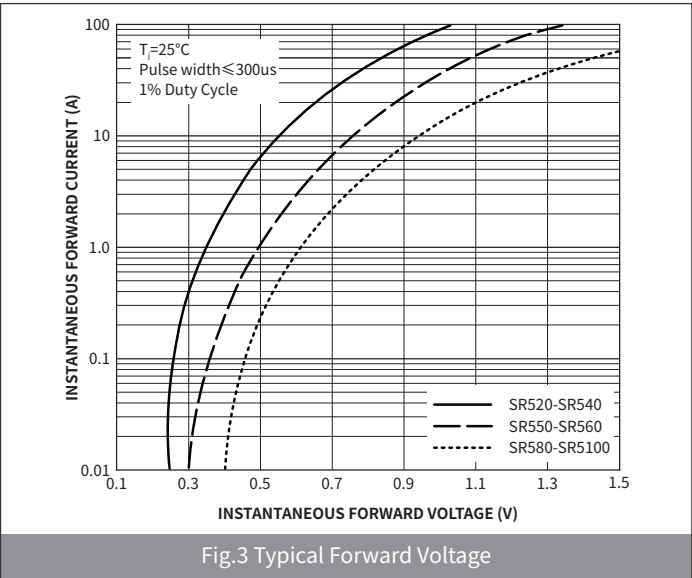
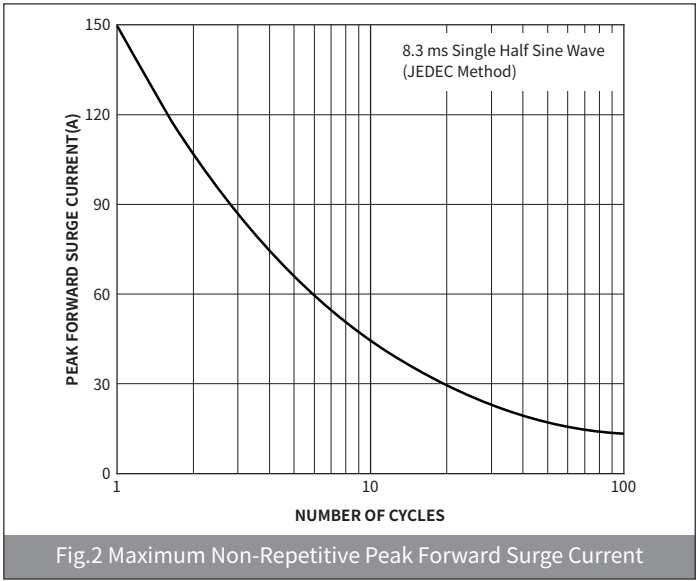
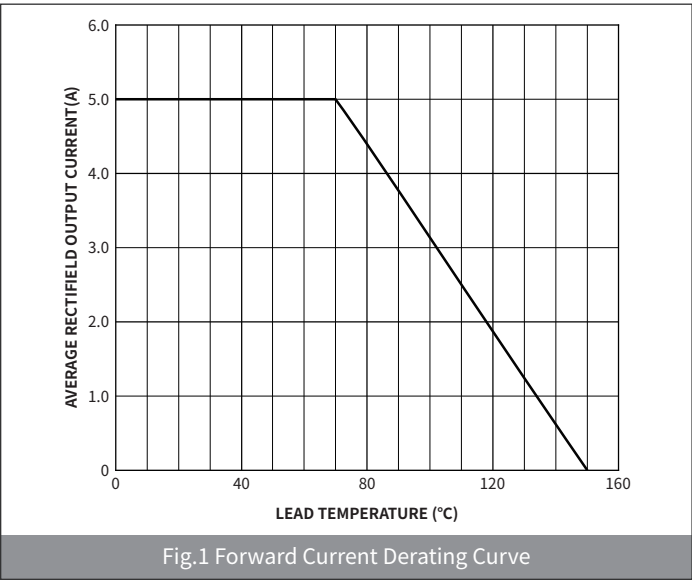
# SR520 THRU SR5100

AXIAL SCHOTTKY BARRIER RECTIFIER

● **Electrical Characteristics** (Ta=25°C Unless otherwise noted)

| PARAMETER                                               | TEST CONDITIONS                                         | SYMBOL          | UNIT | SR520 | SR530 | SR540 | SR550 | SR560 | SR580 | SR5100 |
|---------------------------------------------------------|---------------------------------------------------------|-----------------|------|-------|-------|-------|-------|-------|-------|--------|
| Maximum instantaneous forward voltage                   | I <sub>F</sub> =5.0A                                    | V <sub>F</sub>  | V    | 0.55  |       |       | 0.70  |       | 0.85  |        |
| Maximum DC reverse current at rated DC blocking voltage | V <sub>R</sub> =V <sub>DC</sub> , T <sub>A</sub> =25°C  | I <sub>R1</sub> | mA   | 0.1   |       |       |       |       | 0.02  |        |
|                                                         | V <sub>R</sub> =V <sub>DC</sub> , T <sub>A</sub> =100°C | I <sub>R2</sub> |      | 5     |       |       |       |       | 2     |        |
| Typical junction capacitance                            | 4.0V DC, 1MHz                                           | C <sub>J</sub>  | pF   | 380   |       |       |       |       |       |        |

● **Ratings And Characteristics Curves** (Ta=25°C Unless otherwise specified)



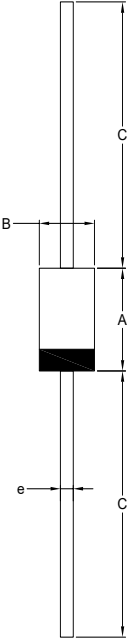
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AXIAL SCHOTTKY BARRIER RECTIFIER

## ● Ordering Information

| PACKAGE  | UNIT WEIGHT(g) | BOX(pcs) | CARTON(pcs) |
|----------|----------------|----------|-------------|
| DO-201AD | 0.954          | 1200     | 12000       |

## ● Package Outline Dimensions (DO-201AD)

|  | Symbol | Dimensions  |       |        |       |
|------------------------------------------------------------------------------------|--------|-------------|-------|--------|-------|
|                                                                                    |        | Millimeters |       | Inches |       |
|                                                                                    |        | Min.        | Max.  | Min.   | Max.  |
|                                                                                    | A      | 7.200       | 9.500 | 0.285  | 0.375 |
|                                                                                    | B      | 5.000       | 5.600 | 0.197  | 0.220 |
|                                                                                    | C      | 25.400      | -     | 1.000  | -     |
|                                                                                    | e      | 1.150       | 1.250 | 0.046  | 0.050 |