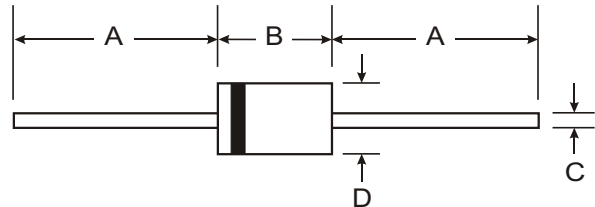


### Features

- Low Reverse Recovery Time ( $T_{rr}$ )
- Low Reverse Current
- Low Forward Voltage Drop
- High Current Capability
- Plastic Material - UL Recognition 94V-0

NOT RECOMMENDED FOR NEW DESIGNS,  
PLEASE USE PR3001G - PR3007G



### Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Axial Leads, Solderable per MIL-STD-202 Method 208
- Polarity: Color Band Denotes Cathode
- Approx. Weight: 1.1 grams
- Mounting Position: Any

| DO-201AD             |      |     |
|----------------------|------|-----|
| Dim                  | Min  | Max |
| A                    | 25.4 | —   |
| B                    | 7.2  | 9.5 |
| C                    | 1.2  | 1.3 |
| D                    | 4.8  | 5.3 |
| All Dimensions in mm |      |     |

### Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.

| Characteristic                                                                                    | Symbol                            | FR 301      | FR 302 | FR 303 | FR 304 | FR 305 | FR 306 | FR 307 | Unit |
|---------------------------------------------------------------------------------------------------|-----------------------------------|-------------|--------|--------|--------|--------|--------|--------|------|
| Maximum Recurrent Peak Reverse Voltage                                                            | V <sub>RRM</sub>                  | 50          | 100    | 200    | 400    | 600    | 800    | 1000   | V    |
| Maximum RMS Voltage                                                                               | V <sub>RMS</sub>                  | 35          | 70     | 140    | 280    | 420    | 560    | 700    | V    |
| Maximum DC Blocking voltage                                                                       | V <sub>DC</sub>                   | 50          | 100    | 200    | 400    | 600    | 800    | 1000   | V    |
| Maximum Average Forward Rectified Current (9.5mm) Lead Length @ T <sub>A</sub> =75°C              | I <sub>(AV)</sub>                 | 3.0         |        |        |        |        |        |        | A    |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I <sub>FSM</sub>                  | 150         |        |        |        |        |        |        | A    |
| Maximum Instantaneous Forward Voltage at 3.0A DC                                                  | V <sub>F</sub>                    | 1.3         |        |        |        |        |        |        | V    |
| Maximum DC Reverse Current                                                                        | I <sub>R</sub>                    | 10          |        |        |        |        |        |        | μA   |
| Maximum Reverse Recovery Time (Note 1)                                                            | T <sub>rr</sub>                   | 150         |        |        |        | 250    | 500    |        | ns   |
| Typical Junction Capacitance (Note 2)                                                             | C <sub>J</sub>                    | 70          |        |        |        | 50     |        |        | pF   |
| Operating and Storage Temperature Range                                                           | T <sub>J</sub> , T <sub>STG</sub> | -65 to +175 |        |        |        |        |        |        | °C   |

Notes: 1. Reverse Recovery Test Conditions:  $I_F=0.5 A$ ,  $I_R=1.0 A$ ,  $I_{RR}=0.25 A$   
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

