

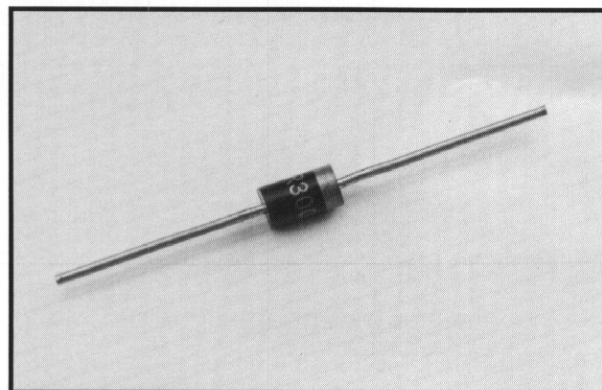
PR3001 Thru PR3007



3 AMP FAST RECOVERY RECTIFIER

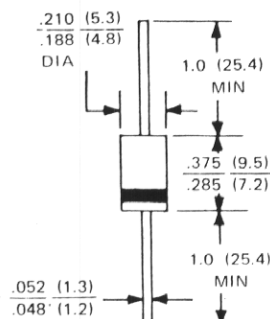
FEATURES

- Rating to 1000V PRV
- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, alcohol, chlorothene and similar solvents
- UL recognized 94V-O plastic material



Outline Drawing

DO-201AD



Mechanical Data

- Case: JEDEC DO-201AD
- Terminals: Axial leads, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.04 ounce, 1.1 grams

Maximum Ratings & Characteristics

- Ratings at 25° C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load, derate current by 20%

| | | PR3001 | PR3002 | PR3003 | PR3004 | PR3005 | PR3006 | PR3007 | Units |
|--|-------------------|-------------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current .375" (9.5mm) Lead Lengths @ T _A = 90° C | I (AV) | 3.0 | | | | | | | A |
| Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load | I _{FSM} | 150 | | | | | | | A |
| Maximum Forward Voltage At 3.0A DC | V _F | 1.2 | | | | | | | V |
| Maximum DC Reverse Current @ T _A = 25°C | I _R | 10 | | | | | | | μA |
| At Rated DC Blocking Voltage @ T _A = 100°C | | 200 | | | 300 | 400 | 500 | | |
| Maximum Reverse Recovery Time @ T _J = 25°C (Note 1) | t _{rr} | 150 | | | | 250 | 500 | ns | |
| Typical Junction Capacitance (Note 2) | C _J | 50 | | | | 25 | | | pF |
| Typical Thermal Resistance (Note 3) | R _{thJA} | 15 | | | | | | | °C/W |
| Operating Temperature Range | T _J | -65 to +150 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -65 to +175 | | | | | | | °C |

- Notes:
1. Measured with $I_F = 0.5A$, $I_R = 1A$, $I_{rr} = 0.25A$
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
 3. Thermal resistance Junction to Ambient

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Datasheets for electronics components.