

PR3001 Thru PR3007

3 AMP FAST RECOVERY RECTIFIER

FEATURES

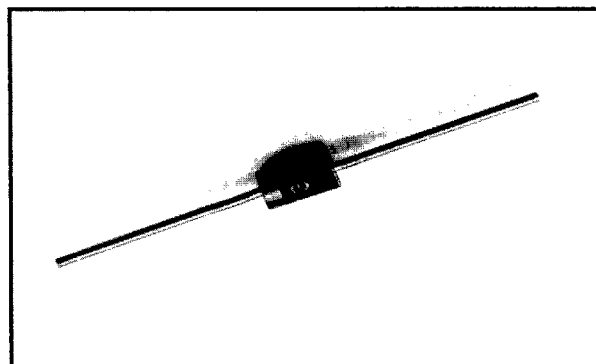
- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, alcohol, chlorothene and similar solvents
- UL recognized 94V-O plastic material

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
- Mounting Position: Any

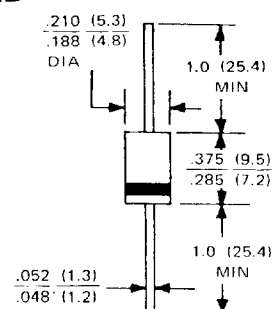
Maximum Ratings & Characteristics

- 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%



Outline Drawing

DO-201AD



Dimensions in inches and (millimeters)

		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 At Rated DC Blocking Voltage @ T _A = 100°C	I _R	10							μA
		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 $I_F = 0.5A$, $I_R = 1A$, $t_{rr} = 0.25A$
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
 3. Thermal resistance Junction to Ambient