



PR1001 Thru PR1007

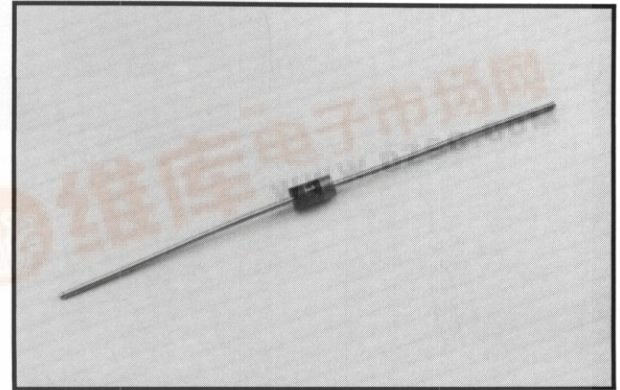
1 AMP FAST RECOVERY RECTIFIER

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

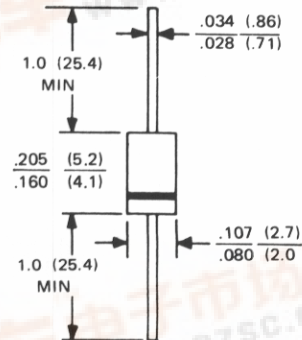
Mechanical Data

- Case: JEDEC DO-41
- Terminals: Axial leads, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.012 ounce, 0.3 grams



Outline Drawing

DO-41



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%

		PR1001	PR1002	PR1003	PR1004	PR1005	PR1006	PR1007	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 = 75°C	I (AV)	1.0							A
Peak Forward Surge Current @ T _J = 125°C 8.3 ms Single Half-Sine-Wave, Superimposed On Rated Load (JEDEC Method)	I _{FSM}	30							A
Maximum Forward Voltage At 1.0A 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	5 100							μA
Maximum Reverse Recovery Time @ T _A = 25°C (Note 1)	t _{rr}	150				250	500		ns
Typical Junction Capacitance (Note 2)	C _J	15				8			pF
Typical Thermal Resistance (Note 3)	R _{thJA}	50							°C/W
Operating Temperature Range	T _J	-65 to +150							°C
Storage Temperature Range	T _{stg}	-65 to +175							°C

Notes: 1. Measured with $I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $t_{rr} = 0.25\text{A}$

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

3. Thermal resistance, Junction to Ambient