



# PR1001 Thru PR1007

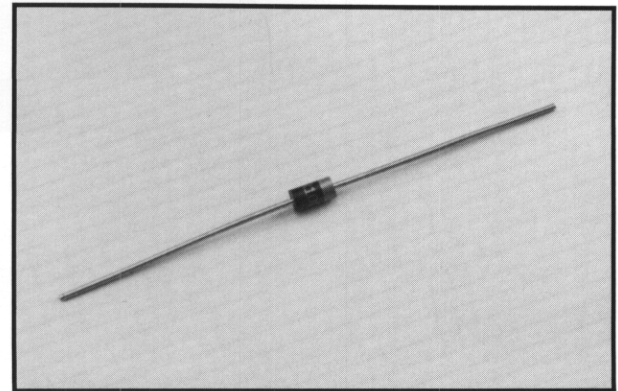
## 1 AMP FAST RECOVERY RECTIFIER

### FEATURES

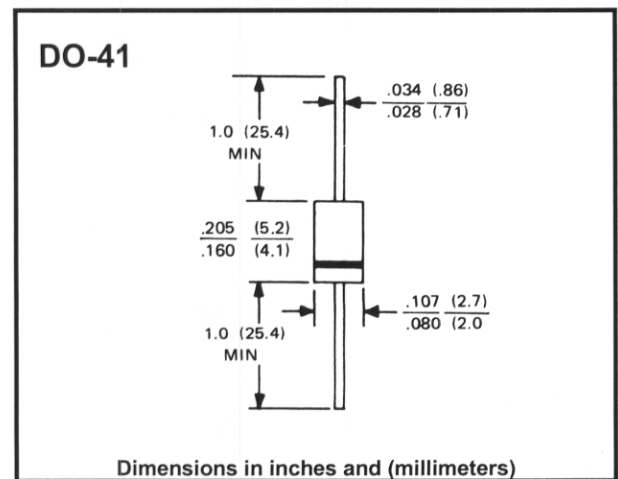
- Rating to 1000V PRV
- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, alcohol, chloroethene and similar solvents
- UL recognized 94V-O plastic material

### 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



### 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 <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 .375" (9.5mm) Lead Lengths @ T <sub>A</sub> = 75°C	I <sub(av)< sub=""></sub(av)<>	1.0							A
Peak Forward Surge Current @ T <sub>J</sub> = 125°C 8.3 ms Single Half-Sine-Wave, Superimposed On Rated Load (JEDEC Method)	I <sub>FSM</sub>	30							A
Maximum Forward Voltage At 1.0A DC	V <sub>F</sub>	1.2							V
Maximum DC Reverse Current @ T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @ T <sub>A</sub> = 100°C	I <sub>R</sub>	5 100							μA
Maximum Reverse Recovery Time @ T <sub>A</sub> = 25°C (Note 1)	t <sub>rr</sub>	150				250	500		ns
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	15				8			pF
Typical Thermal Resistance (Note 3)	R <sub>thJA</sub>	50							°C/W
Operating Temperature Range	T <sub>J</sub>	-65 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +175							°C

- Notes:
1. Measured with I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1A, I<sub>rr</sub> = 0.25A
  2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
  3. Thermal resistance Junction to Ambient