

1N4933 Thru 1N4937

1 AMP FAST RECOVERY RECTIFIER

FEATURES

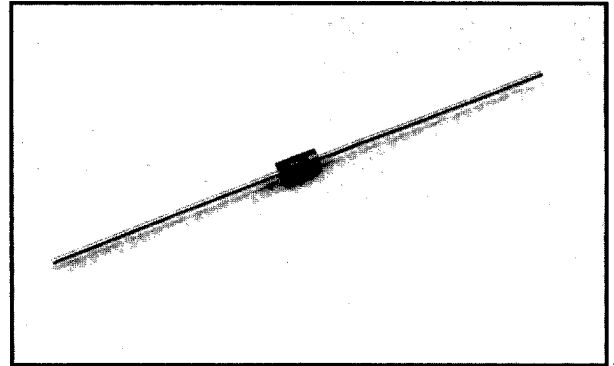
- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, alcohol, chloroethene and similar solvents
- UL recognized 94V-O plastic material

Mechanical Data

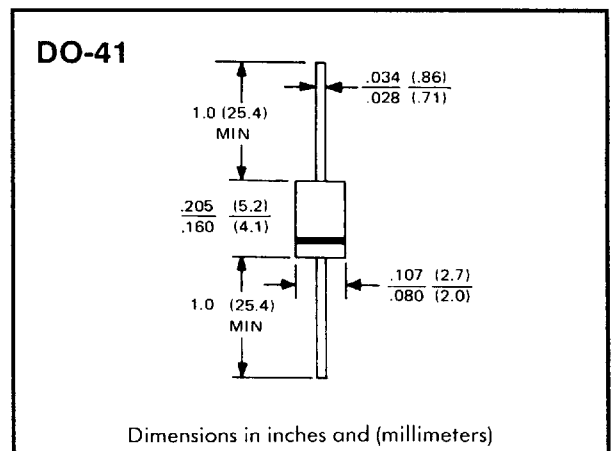
- Case: JEDEC DO-41
- Terminals: Axial leads, solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode
- Weight: 0.012 ounce, 0.3 grams
- Mounting Position: Any

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



		1N4933	1N4934	1N4935	1N4936	1N4937	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	60	100	200	400	600	V
Maximum Average Forward Rectified Current @ $T_A = 75^\circ C$	$I_{(AV)}$	1.0					A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load @ $T_A = 75^\circ C$	I_{FSM}	30					A
Maximum Forward Voltage At 1.0A DC	V_F	1.2					V
Maximum DC Reverse Current @ $T_A = 25^\circ C$	I_R	5					μA
At Rated DC Blocking Voltage @ $T_A = 100^\circ C$		100					
Maximum Reverse Recovery Time (Note 1) @ $T_J = 25^\circ C$	t_{rr}	200					ns
Typical Junction Capacitance (Note 2)	C_J	15					pF
Typical Thermal Resistance (Note 3)	R_{thJA}	50					$^\circ C/W$
Operating Temperature Range	T_J	-65 to +150					$^\circ C$
Storage Temperature Range	T_{STG}	-65 to +175					$^\circ C$

- Notes:
1. Measured with $I_F = 1.0A$, $V_R = 30V$, $di/dt = 50A/\mu s$
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC
 3. Thermal resistance Junction to Ambient