

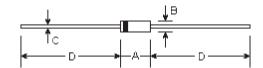
1N4933 THRU 1N4937

FAST SWITCHING PLASTIC RECTIFIER
Reverse Voltage - 50 to 600 Volts
Forward Current - 1.0 Ampere

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Construction utilizes void-free molded plastic technique
- 1.0 ampere operation at T_A=75℃ with no thermal runaway
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

DO-41



Mechanical Data

• Case: DO-41 molded plastic body

 Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026

• Polarity: Color band denotes cathode end

Mounting Position: Any

• Weight: 0.012 ounce, 0.33 gram

DIMENSIONS									
DIM	inches		m	Note					
	Min.	Max.	Min.	Max.	Note				
Α	0.165	0.205	4.2	5.2					
В	0.079	0.106	2.0	2.7	ф				
С	0.028	0.034	0.71	0.86	ф				
D	1.000	-	25.40	-					

Mximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	1N4933	1N4934	1N4935	1N4936	1N4937	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at $\rm T_A = 75^{\circ}C$	I _(AV)		Amp				
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 mothed) at T _A =75°C	I _{FSM}	30.0					Amps
Maximum instantaneous forward voltage at 1.0A	V _F	1.2					Volts
Maximum DC reverse current at rated DC blocking voltage T _A =100°C	I _R	5.0 100.0					μА
Maximum reverse recovery time (Note 1) T $_{\rm J}$ =25 $^{\circ}{\rm C}$	T _{rr}		nS				
Typical junction capacitance (Note 2)	C _J	15.0					ρF
Typical thermal resistance (Note 3)	R R⊕JA R⊕JL	55.0 25.0					°C/W
Operating junction and storage temperature range	T _J , T _{STG}		$^{\circ}$				

Notes:

- (1) Reverse recovery test conditions: $I_F = 0.5A$, $I_R = 1.0A$, $I_m = 0.25A$
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts
- (3) Thermal resistance from junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES

