

CTC 1N4933-1N4937 RECTIFIER Datasheet

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FEATURES

Fast switching for high efficiency

Low cost

Diffused junction

Low reverse leakage current

Low forward voltage drop

High current capability

The plastic material carries UL recognition 94V-0

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FAST RECOVERY RECTIFIERS

REVERSE VOLTAGE - **50 to 600** Volts
FORWARD CURRENT - **1.0** Ampere

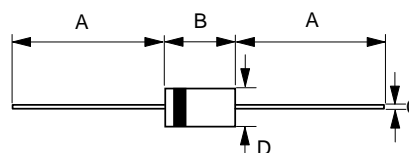
FEATURES

- Fast switching for high efficiency
- Low cost
- Diffused junction
- Low reverse leakage current
- Low forward voltage drop
- High current capability
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MECHANICAL DATA

- Case : JEDEC DO-41 molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.012 ounces, 0.34 grams
- Mounting position : Any

DO-41



DO-41		
Dim.	Min.	Max.
A	25.4	-
B	4.20	5.20
C	0.70 \varnothing	0.90 \varnothing
D	2.00 \varnothing	2.70 \varnothing
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL 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%

CHARACTERISTICS	SYMBOL	1N4933	1N4934	1N4935	1N4936	1N4937	UNIT
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}	50	100	200	400	600	V
Maximum Average Forward Rectified Current @T _A =75°C	I _(AV)	1.0					A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	I _{FSM}	30					A
Maximum forward Voltage at 1.0A DC	V _F	1.3					V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T _J =25°C @T _J =100°C	I _R	5.0 100					uA uA
Maximum Reverse Recovery Time (Note 1)	T _{RR}	200					ns
Maximum Reverse Recovery Time (Note 2)	T _{RR}	130					ns
Typical Junction Capacitance (Note 3)	C _J	15					pF
Typical Thermal Resistance (Note 4)	R _{θJA}	50					°C/W
Operating Temperature Range	T _J	-55 to +150					°C
Storage Temperature Range	T _{STG}	-55 to +150					°C

NOTES : 1.Measured with I_F=1.0A,V_R=30V,di/dt=50A/us.

2.Measured with I_F=0.5A,I_R=1A,I_{RR}=0.25A.

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

4.Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES

FIG. 1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

