## 1N4933 THRU 1N4937

## **FAST RECOVERY RECTIFIERS**

Reverse Voltage - 50 to 600 Volts Forward Current - 1.0 Ampere

## FEATURES

◆The plastic package carries Underwriters Laboratory

Flammability Classification 94V-0

- ◆Fast switching for high efficiency
- ◆Low reverse leakage
- ◆High forward surge current capability
- ◆High temperature soldering guaranteed:

250°C/10 seconds,0.375"(9.5mm) lead length,

5 lbs. (2.3kg) tension

#### Mechanical Data

◆Case: DO-41 molded plastic body

◆Terminals: Plated axial leads, solderable per

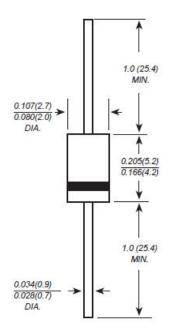
MIL-STD-750, Method 2026

◆Polarity: Color band denotes cathode end

◆ Mounting position: Any

♦ Weight: 0.26 grams





**Dimensions in inches and (millimeters)** 

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	1N 4933	1N 4934	1N 4935	1N 4936	1N 4937	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{\text{RRM}}$	50	100	200	400	600	VOLTS
Maximum RMS Voltage	$V_{\text{RMS}}$	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 $T_A$ =75 $^{\circ}$ C	I(AV)	1.0					Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30.0					Amps
Maximum instantaneous forward voltage at 1.0A	$V_{\mathrm{F}}$	1.2					VOLTS
Maximum DC Reverse Current $T_A=25^{\circ}C$	$I_{ m R}$	5.0 50.0					uA
at Rated DC blocking voltage $T_A = 100$ °C	1R						
Maximum reverse recovery time (NOTE 1)	t <sub>rr</sub>	200					ns
Typical Junction Capacitance (Note 1)	$C_{J}$	15.0					pF
Typical Thermal Resistance (Note 2)	R <sub>θ</sub> JA	50.0					°C/W
Operating junction and storage temperature range	T <sub>J</sub> ,Tstg	-65 to +150					$^{\circ}$

Note: 1.Reverse recovery condition  $I_F$ =0.5A, $I_R$ =1.0A, $I_R$ =0.25A

- 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

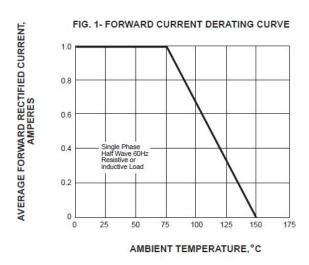


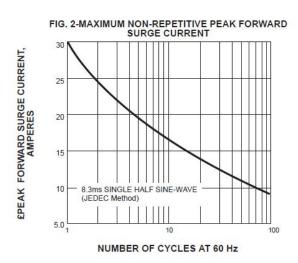
# 1N4933 THRU 1N4937

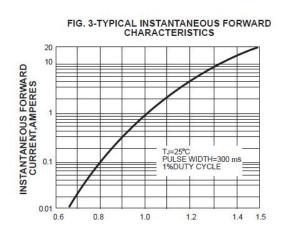
## FAST RECOVERY RECTIFIERS

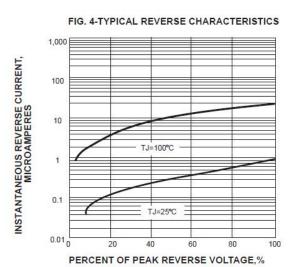
Reverse Voltage - 50 to 600 Volts Forward Current - 1.0 Ampere

## RATING AND CHARACTERISTIC CURVES 1N4933 THRU 1N4937

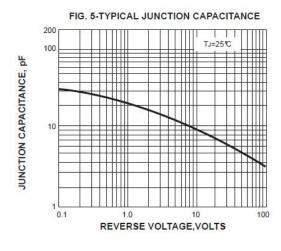


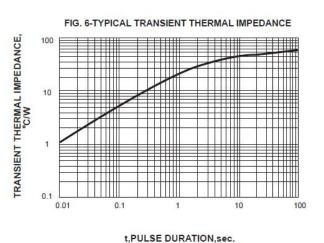












Note: Specifications are subject to change without notice. For more detail and update, please visit our website.