



## Features:

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

## Specifications:

### Mechanical Data:

Cases	: Moulded plastic DO-41
Lead	: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
Polarity	: Colour band denotes cathode end
High temperature soldering guaranteed	: 260°C/10 seconds/0.375", (9.5mm) lead lengths at 5lbs., (2.3kg) tension
Weight	: 0.34g

## 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%.

Type Number	Symbol	1N4935G	1N4937G	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	600	V
Maximum RMS Voltage	$V_{RMS}$	140	420	
Maximum DC Blocking Voltage	$V_{DC}$	200	600	
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at $T_A = 75^\circ\text{C}$	$I_{(AV)}$	1		A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	$I_{FSM}$	30		
Maximum Instantaneous Forward Voltage at 1A	$V_F$	1.2		V
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$	$I_R$	5	100	$\mu\text{A}$ $\mu\text{A}$

Type Number	Symbol	1N4935G	1N4937G	Units
Maximum Reverse Recovery Time (Note 1)	$T_{rr}$	200		nS
Typical Junction Capacitance (Note 2)	$C_J$	10		pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	65		°C/W
Operating Temperature Range	$T_J$	-65 to +175		°C
Storage Temperature Range	$T_{STG}$			

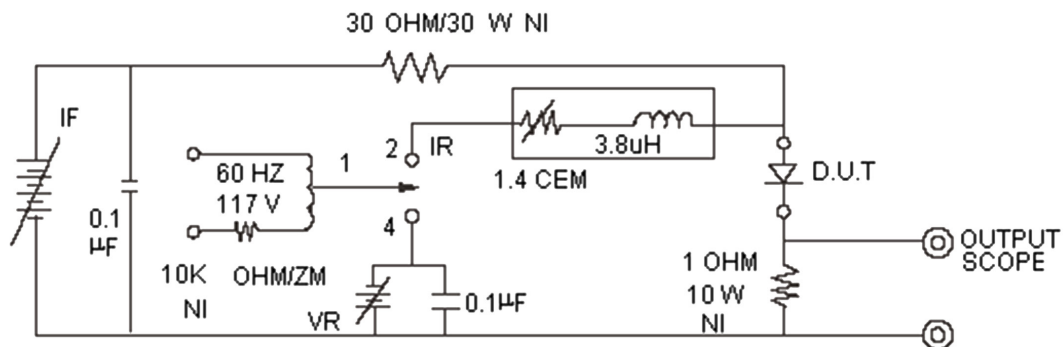
**Note 1:** Reverse Recovery Test Conditions:  $I_F = 1.0A$ ,  $V_R = 30V$ ,  $di/dt = 50A/\mu S$ ,  $I_{rr} = 10\% I_{RM}$  for Measurement of  $t_{rr}$ .

**Note 2:** Measured at 1MHz and Applied Reverse Voltage of 4V DC.

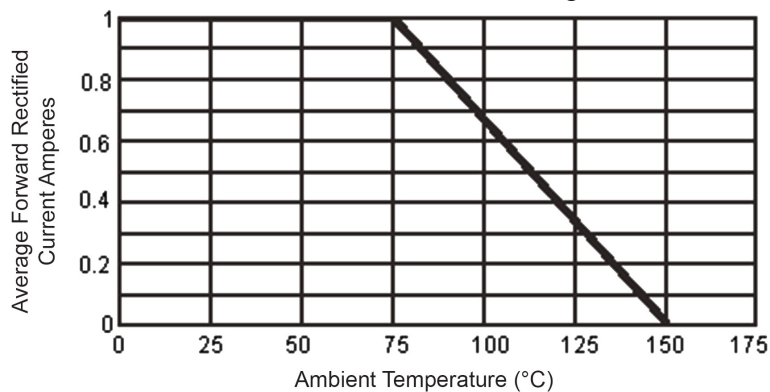
**Note 3:** Mount on Cu-Pad Size 5mm × 5mm on PCB.

## Ratings and Characteristic Curves (1N4935G thru 1N4937G)

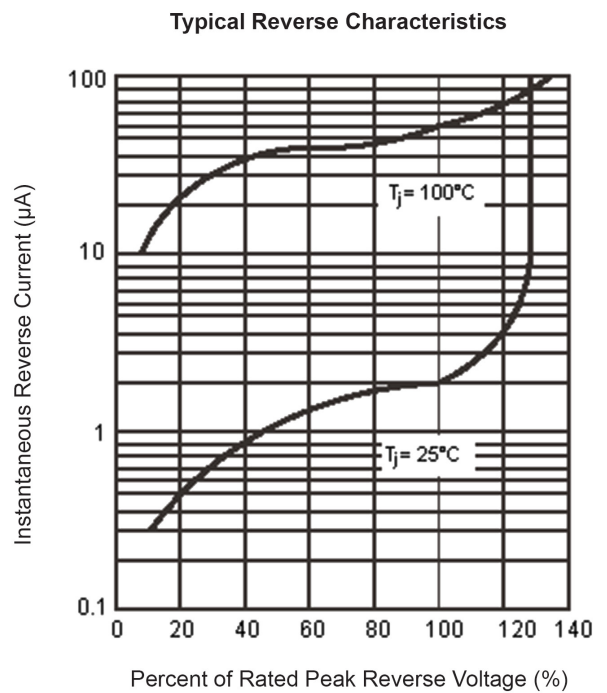
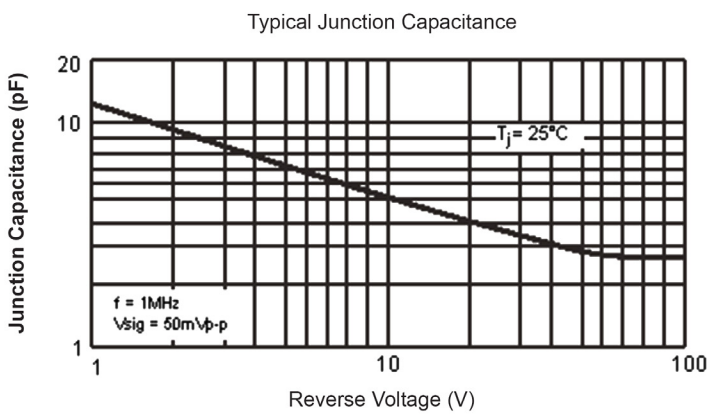
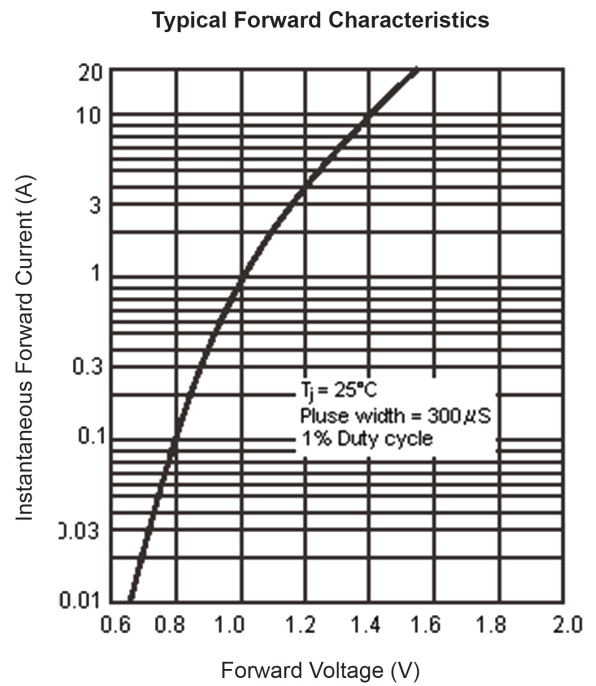
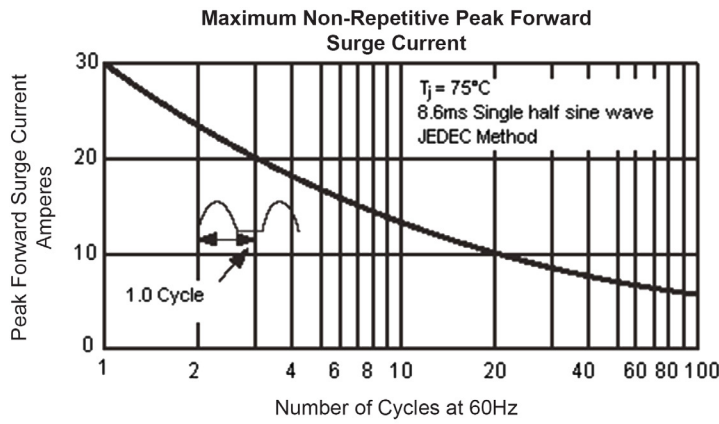
Reverse Recovery Time Characteristic and Test Circuit Diagram



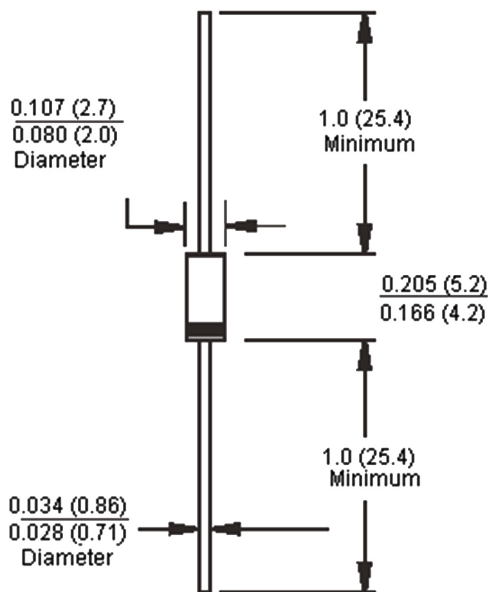
Maximum Forward Current Derating Curve



# Fast Diode



## DO-41



Dimensions : Inches (Millimetres)

### Part Number Table

Description	Part Number
Diode, Fast, 1A, 200V	1N4935G
Diode, Fast, 1A, 600V	1N4937G

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