



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°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°C at Rated DC Blocking Voltage at T _A = 125°C	I _R	5 100		μA μA

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}			

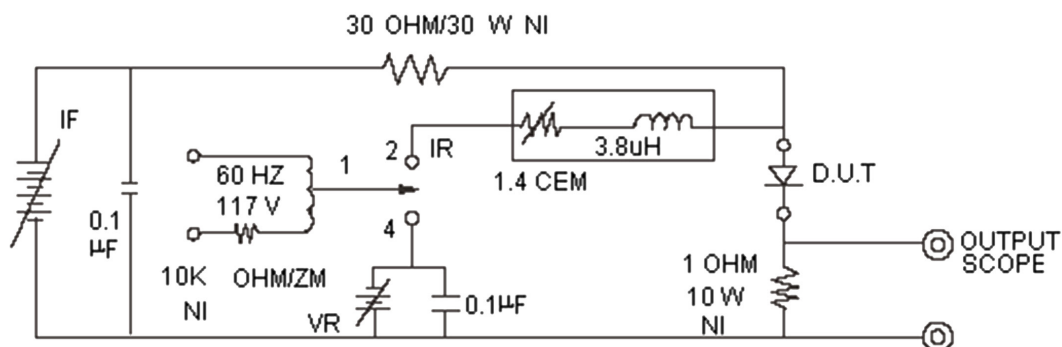
Note 1: Reverse Recovery Test Conditions: $I_F = 1.0A$, $V_R = 30V$, $di/dt = 50A/\mu S$, $I_{rr} = 10\% I_{RM}$ for Measurement of t_{rr} .

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

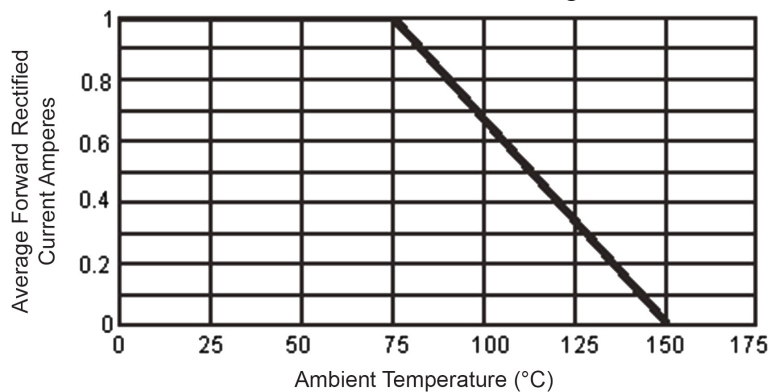
Note 3: Mount on Cu-Pad Size 5mm × 5mm on PCB.

Ratings and Characteristic Curves (1N4935G thru 1N4937G)

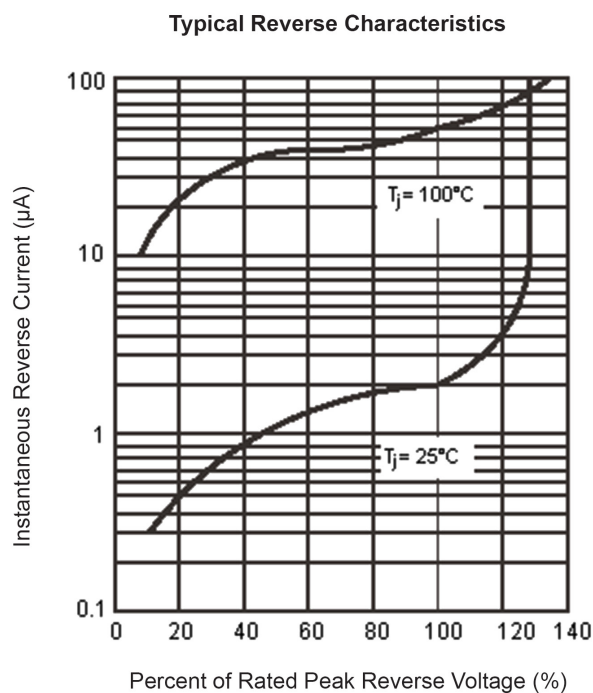
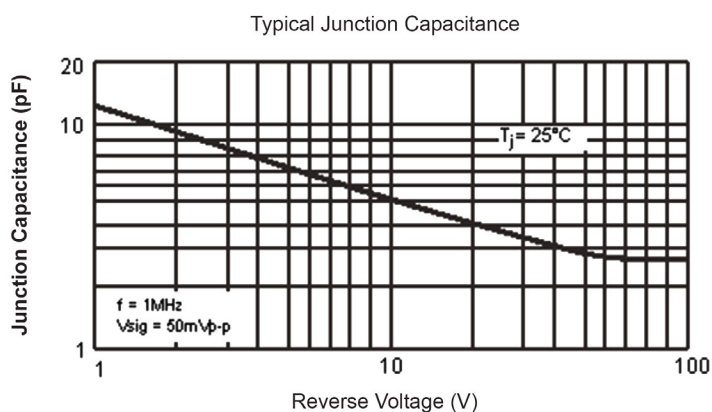
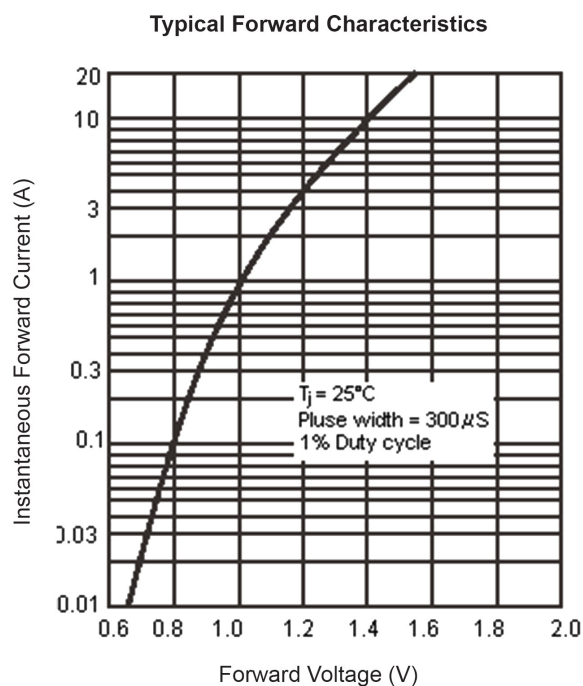
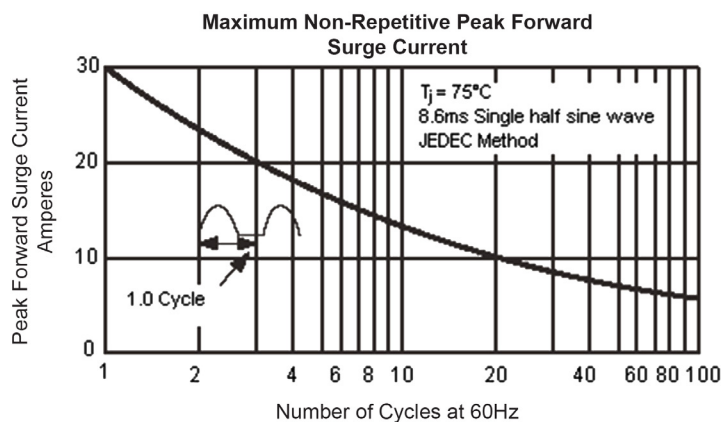
Reverse Recovery Time Characteristic and Test Circuit Diagram



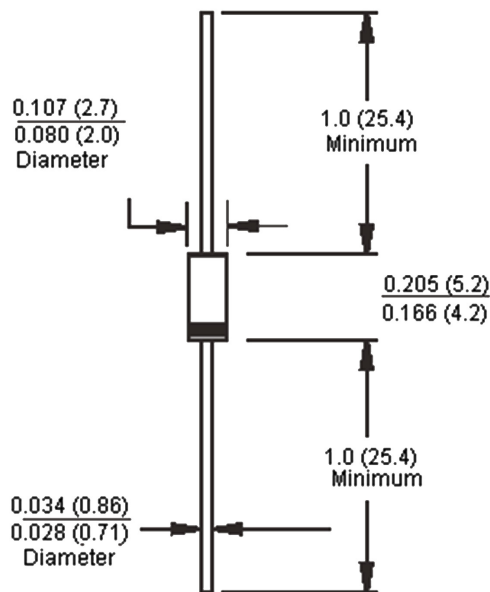
Maximum Forward Current Derating Curve



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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