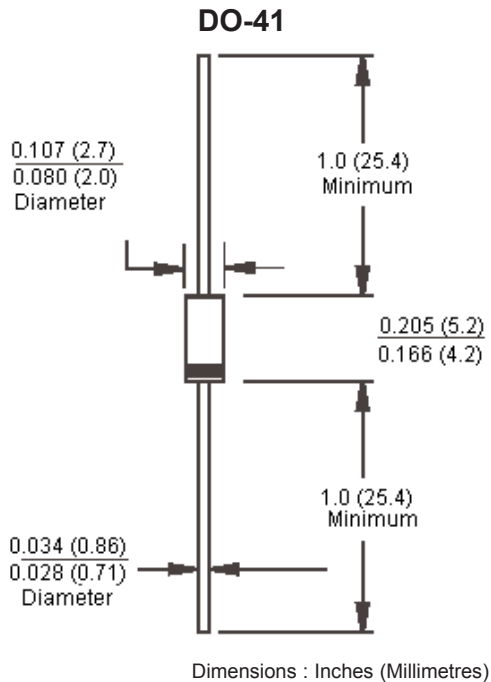




Features:

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



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 inch, (9.5mm) lead lengths at 5lbs., (2.3kg) tension.
Weight	: 0.34 grams.

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 inch (9.5mm) Lead Length at $T_A = 75^\circ\text{C}$	$I_{(AV)}$	1.0		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 1.0A	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	5.0	100	μA μA
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		$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-65 to +150		$^\circ\text{C}$
Storage Temperature Range	T_{STG}			

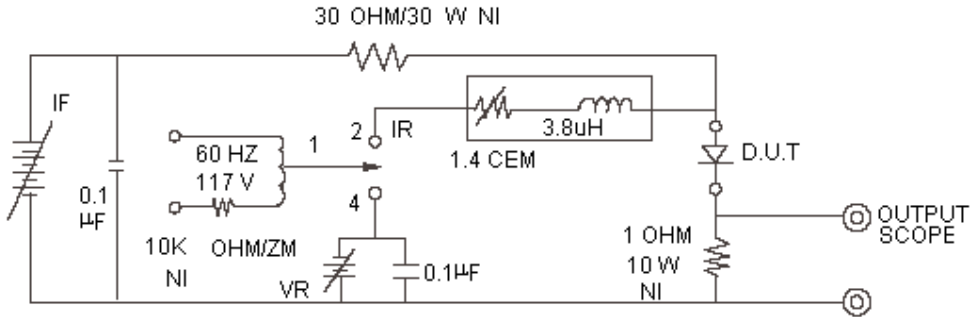
Note: 1. Reverse Recovery Test Conditions: $I_F = 1.0\text{A}$, $V_R = 30\text{V}$, $di/dt = 50\text{A}/\mu\text{S}$, $I_{rr} = 10\%$ IRM for Measurement of t_{rr} .

2. Measured at 1MHz and Applied Reverse Voltage of 4.0V dc.

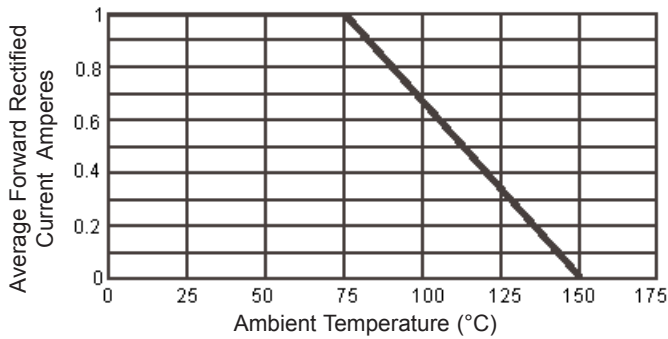
3. Mount on Cu-Pad Size 5mm x 5mm on PCB.

Ratings and Characteristic Curves (1N4935G thru 1N4937G)

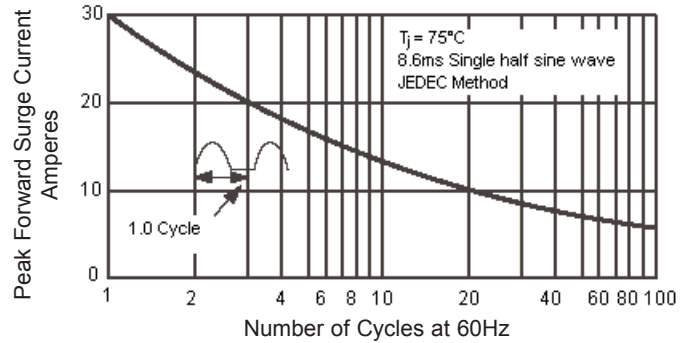
Reverse Recovery Time Characteristic and Test Circuit Diagram



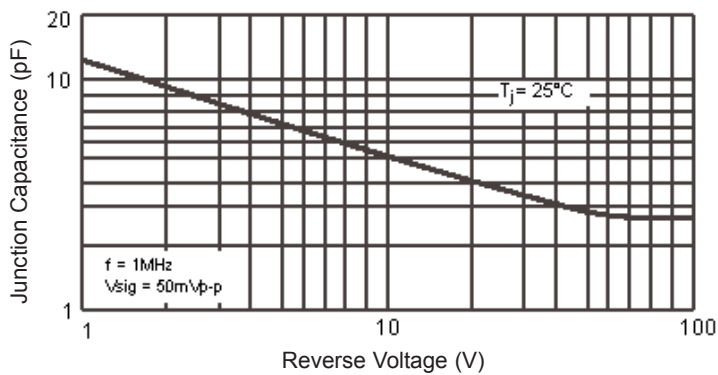
Maximum Forward Current Derating Curve



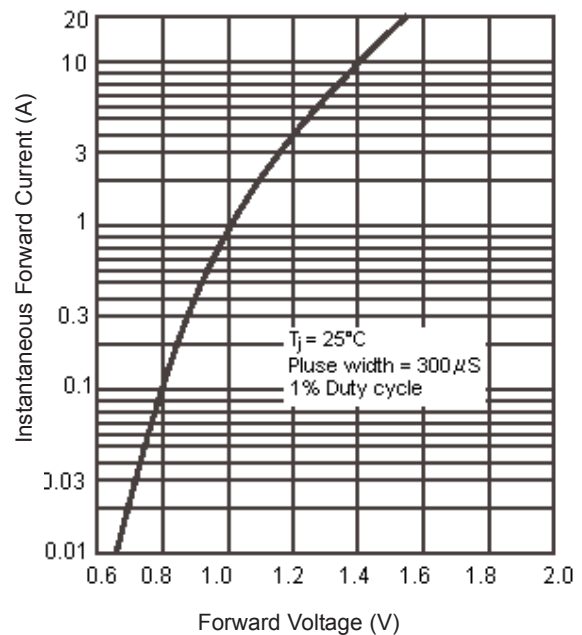
Maximum Non-Repetitive Peak Forward Surge Current



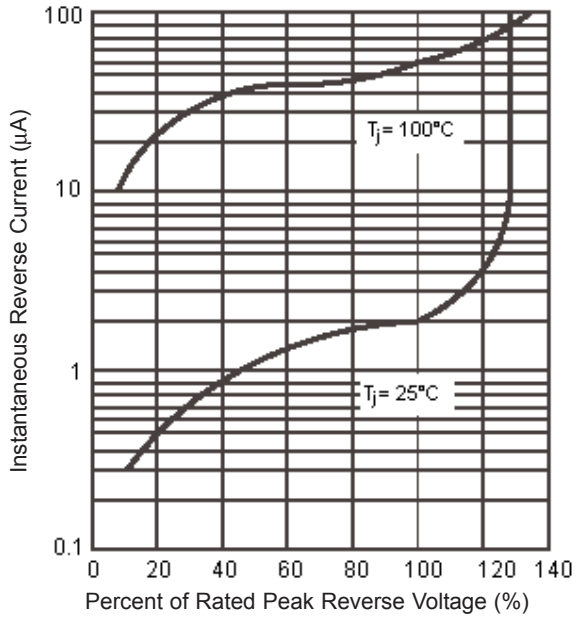
Typical Junction Capacitance



Typical Forward Characteristics



Typical Reverse Characteristics



Part Number Table

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

Notes:

International Sales Offices:

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