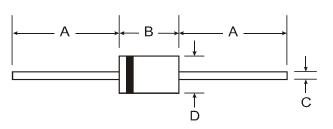


# 1N4933G - 1N4937G

### 1.0A FAST RECOVERY GLASS PASSIVATED RECTIFIER

## **Features**

- Glass Passivated Die Construction
- **Diffused Junction**
- Fast Switching for High Efficiency
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Lead Free Finish, RoHS Compliant (Note 4)



## **Mechanical Data**

Case: DO-41

Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Moisture Sensitivity: Level 1 per J-STD-020D

Terminals: Finish - Bright Tin. Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band

Ordering Information: See Page 3

Marking: Type Number

Weight: 0.35 grams (approximate)

Dim	DO-41				
ווווט	Min	Max			
Α	25.40	_			
В	4.06	5.21			
С	0.71	0.864			
D	2.00	2.72			
All Dimensions in mm					

# **Maximum Ratings and Electrical Characteristics**

@TA = 25°C unless otherwise specified

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

Characteristic	Symbol	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50	100	200	400	600	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35	70	140	280	420	٧
Average Rectified Output Current (Note 1) @ T <sub>A</sub> = 75°C		1.0				Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load  IFSM 30		30		Α			
Forward Voltage @ I <sub>F</sub> = 1.0A		1.2				٧	
Peak Reverse Current @ T <sub>A</sub> = 25°C at Rated DC Blocking Voltage @ T <sub>A</sub> = 100°C		5.0 100				μА	
Reverse Recovery Time (Note 3)		200				ns	
Typical Junction Capacitance (Note 2)		15			рF		
Typical Thermal Resistance Junction to Ambient		100			K/W		
Operating and Storage Temperature Range		-65 to +150			°C		

Notes:

- 1. Valid provided that leads are maintained at ambient temperature at a distance of 9.5mm from the case.
- Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- Measured with  $I_F$  0.5A,  $I_R$  = 1.0A,  $I_{rr}$  = 0.25A.
- 4. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes.



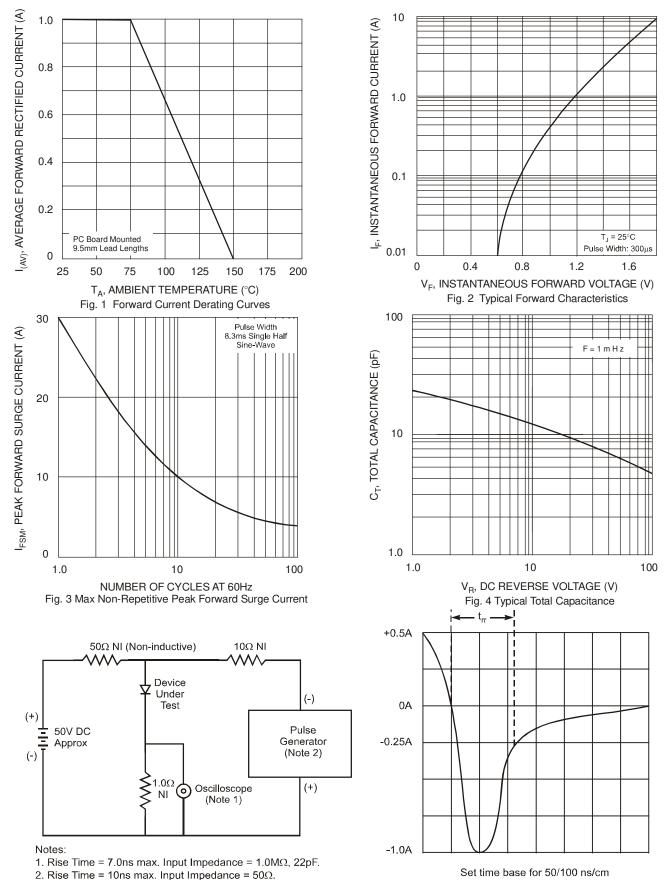


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit



## **Ordering Information** (Note 5)

Device	Packaging	Shipping
1N4933G-T	DO-41	5K/Tape & Reel, 13-inch
1N4934G-T	DO-41	5K/Tape & Reel, 13-inch
1N4935G-T	DO-41	5K/Tape & Reel, 13-inch
1N4936G-T	DO-41	5K/Tape & Reel, 13-inch
1N4937G-T	DO-41	5K/Tape & Reel, 13-inch

Notes: 5. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf.

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