

# 1N4933G – 1N4937G Rohs



## 1.0A GLASS PASSIVATED FAST RECOVERY DIODE

#### **Features**

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- **High Current Capability**
- High Reliability
- High Surge Current Capability

# **Mechanical Data** D

Case: DO-41, Molded Plastic

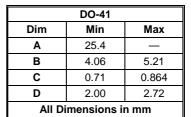
Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.34 grams (approx.)

Mounting Position: Any Marking: Type Number

Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



### Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=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	VRRM VRWM VR	50	100	200	400	600	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	٧
Average Rectified Output Current (Note 1) @T <sub>A</sub> = 75°C	lo	1.0			Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30			Α		
Forward Voltage @I <sub>F</sub> = 1.0A	VFM	1.2			V		
	lгм	5.0 100			μΑ		
Reverse Recovery Time (Note 2)	trr	200			nS		
Typical Junction Capacitance (Note 3)	Cj	15			pF		
Operating Temperature Range	Tj	-65 to +150			°C		
Storage Temperature Range	Тѕтс	-65 to +150			°C		

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

- 2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

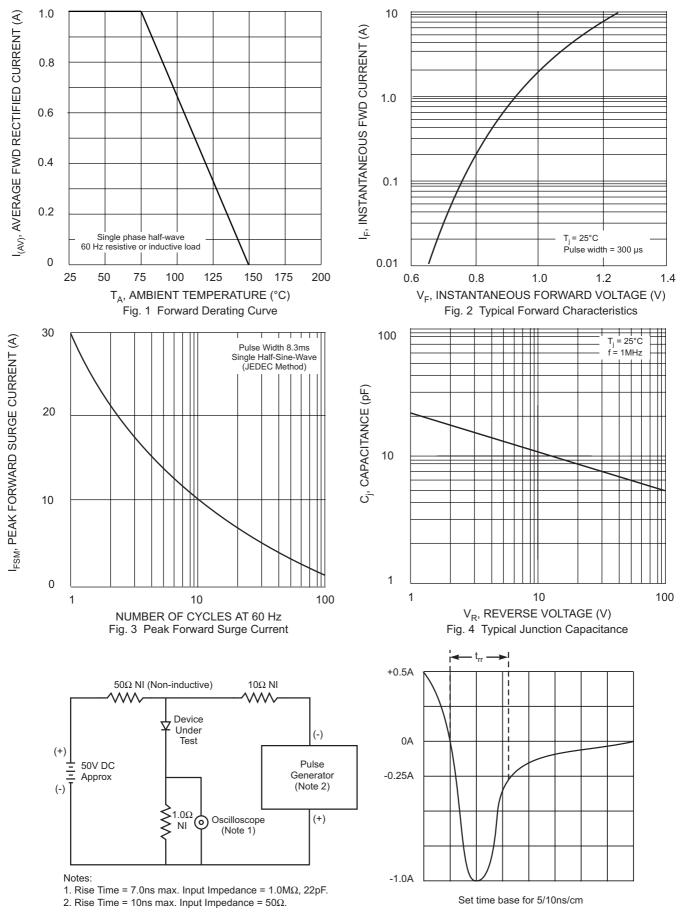
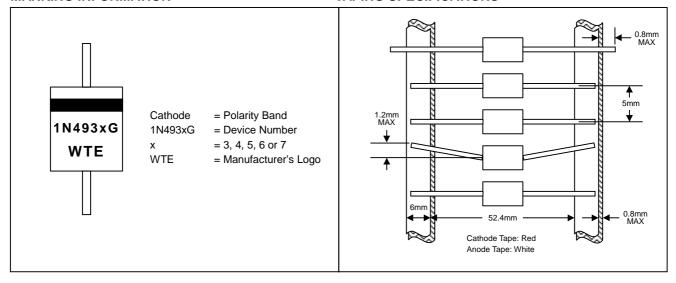


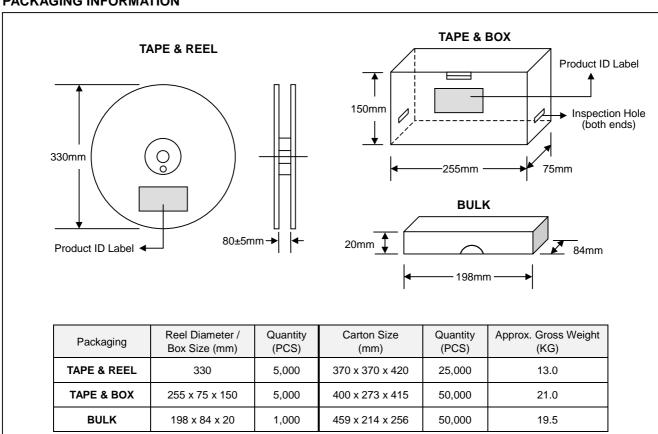
Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

#### **MARKING INFORMATION**

### **TAPING SPECIFICATIONS**



#### **PACKAGING INFORMATION**



Note: 1. Paper reel, white or gray color. Core material: plastic or metal.

2. Components are packed in accordance with  $\dot{\text{EIA}}$  standard RS-296-E.

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity		
1N4933G-T3	DO-41	5000/Tape & Reel		
1N4933G-TB	DO-41	5000/Tape & Box		
1N4933G	DO-41	1000 Units/Box		
1N4934G-T3	DO-41	5000/Tape & Reel		
1N4934G-TB	DO-41	5000/Tape & Box		
1N4934G	DO-41	1000 Units/Box		
1N4935G-T3	DO-41	5000/Tape & Reel		
1N4935G-TB	DO-41	5000/Tape & Box		
1N4935G	DO-41	1000 Units/Box		
1N4936G-T3	DO-41	5000/Tape & Reel		
1N4936G-TB	DO-41	5000/Tape & Box		
1N4936G	DO-41	1000 Units/Box		
1N4937G-T3	DO-41	5000/Tape & Reel		
1N4937G-TB	DO-41	5000/Tape & Box		
1N4937G	DO-41	1000 Units/Box		

- Products listed in **bold** are WTE **Preferred** devices.
- 2. Shipping quantity given is for minimum packing quantity only. For minimum
- order quantity, please consult the Sales Department.

  To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix 3. to part number above. For example, 1N4933G-TB-LF.

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**WARNING**: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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