



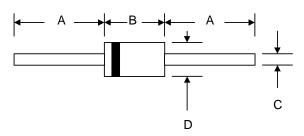
# **1.0A FAST RECOVERY DIODE**

# Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

# **Mechanical Data**

- 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



DO-41					
Dim	Min	Max			
Α	25.4	—			
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	1N4933	1N4934	1N4935	1N4936	1N4937	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	V
Average Rectified Output Current (Note 1) $@T_A = 55^{\circ}C$	ю	1.0				А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30			A		
Forward Voltage @I <sub>F</sub> = 1.0A	VFM	1.2				V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	<b>I</b> RM	5.0 100			μA		
Reverse Recovery Time (Note 2)	trr	200			nS		
Typical Junction Capacitance (Note 3)	Cj	15			pF		
Operating Temperature Range	Tj	-65 to +125			°C		
Storage Temperature Range	Tstg	-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.

1N4933 - 1N4937

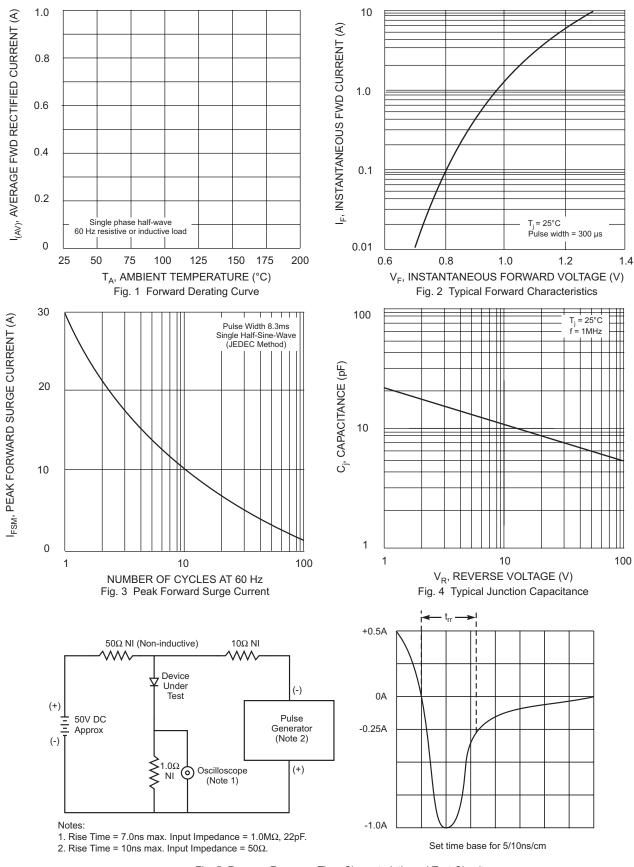
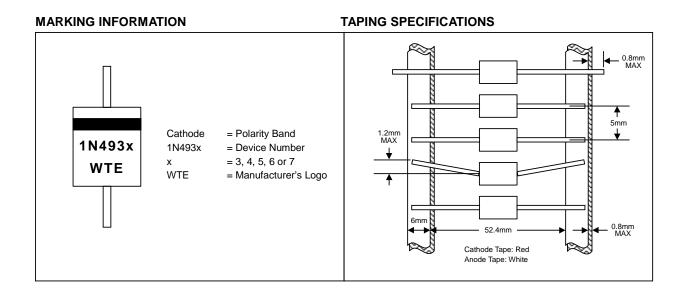
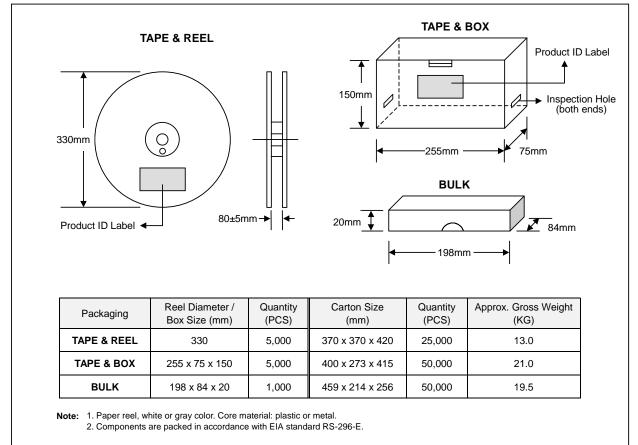


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

1N4933 - 1N4937



#### PACKAGING INFORMATION



Product No.	Package Type	Shipping Quantity	
1N4933-T3	DO-41	5000/Tape & Reel	
1N4933-TB	DO-41	5000/Tape & Box	
1N4933	DO-41	1000 Units/Box	
1N4934-T3	DO-41	5000/Tape & Reel	
1N4934-TB	DO-41	5000/Tape & Box	
1N4934	DO-41	1000 Units/Box	
1N4935-T3	DO-41	5000/Tape & Reel	
1N4935-TB	DO-41	5000/Tape & Box	
1N4935	DO-41	1000 Units/Box	
1N4936-T3	DO-41	5000/Tape & Reel	
1N4936-TB	DO-41	5000/Tape & Box	
1N4936	DO-41	1000 Units/Box	
1N4937-T3	DO-41	5000/Tape & Reel	
1N4937-TB	DO-41	5000/Tape & Box	
1N4937	DO-41	1000 Units/Box	

# **ORDERING INFORMATION**

1. Products listed in **bold** are WTE Preferred devices.

2. Shipping quantity given is for minimum packing quantity only. For minimum

To order quantity, please consult the Sales Department. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, 1N4933-TB-LF. 3.

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