

1N4933 – 1N4937

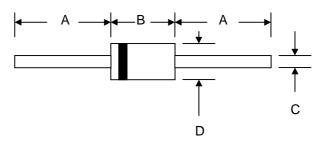
1.0A FAST RECOVERY RECTIFIER

Features

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

Mechanical Data

- Case: 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



| 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 @T_A=25°C unless otherwise specified

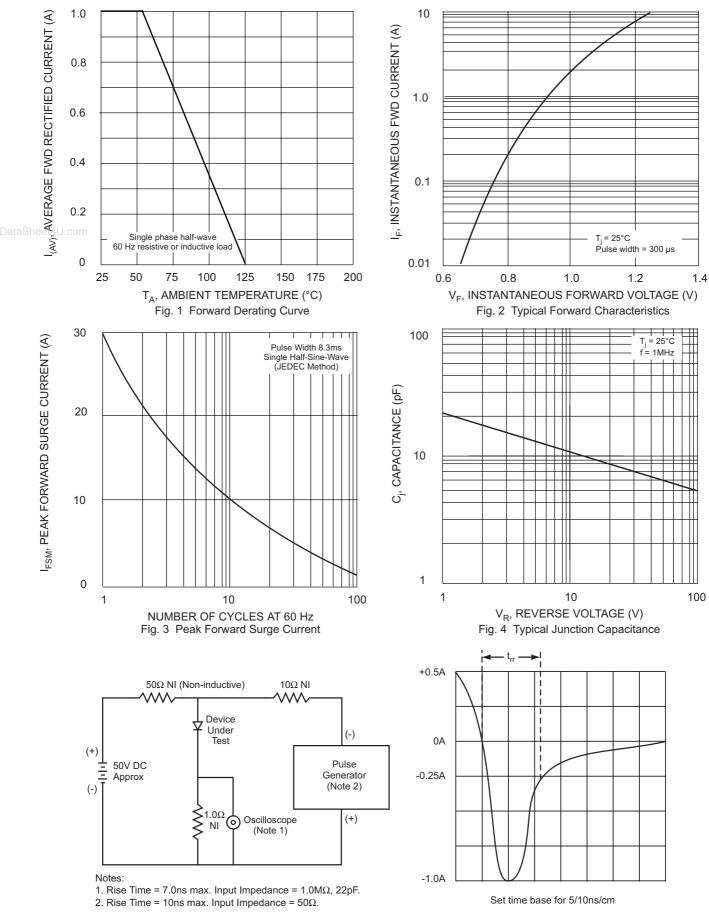
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

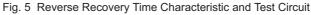
| Characteristic | Symbol | 1N4933 | 1N4934 | 1N4935 | 1N4936 | 1N4937 | Unit |
|---|--------------------|--------|--------|-------------|--------|--------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | Vrrm Vrwm Vr | 50 | 100 | 200 | 400 | 600 | V |
| RMS Reverse Voltage | VR(RMS) | 35 | 70 | 140 | 280 | 420 | V |
| Average Rectified Output Current (Note 1) $@T_A = 55^{\circ}C$ | lo | | | 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 _F = 1.0A | VFM | | | 1.2 | | | V |
| Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$ | Iгм | | | 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 | Тѕтс | | | -65 to +150 | | | °C |

*Glass passivated forms are available upon request

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.





| 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

Products listed in **bold** are WTE **Preferred** devices. *T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

* I3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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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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