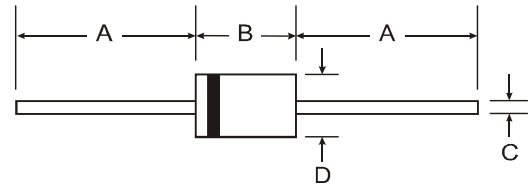


Features

- Diffused Junction
- Fast Switching for High Efficiency
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Low Reverse Leakage Current
- **Lead Free Finish, RoHS Compliant (Notes 1 & 2)**



Mechanical Data

- Case: DO-41
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish - Bright Tin. Plated Leads Solderable per MIL-STD-202, Method 208 (3)
- Polarity: Cathode Band
- Mounting Position: Any
- Marking: Type Number
- 0.35 grams (Approximate)

| Dim | DO-41 Plastic | |
|----------------------|---------------|-------|
| | Min | Max |
| A | 25.40 | — |
| B | 4.06 | 5.21 |
| C | 0.71 | 0.864 |
| D | 2.00 | 2.72 |
| All Dimensions in mm | | |

Ordering Information (Note 3)

| Device | Packaging | Shipping |
|----------|-----------|-------------------------|
| 1N4933-T | DO-41 | 5K/Tape & Reel, 13-inch |
| 1N4934-T | DO-41 | 5K/Tape & Reel, 13-inch |
| 1N4935-T | DO-41 | 5K/Tape & Reel, 13-inch |
| 1N4936-T | DO-41 | 5K/Tape & Reel, 13-inch |
| 1N4937-T | DO-41 | 5K/Tape & Reel, 13-inch |

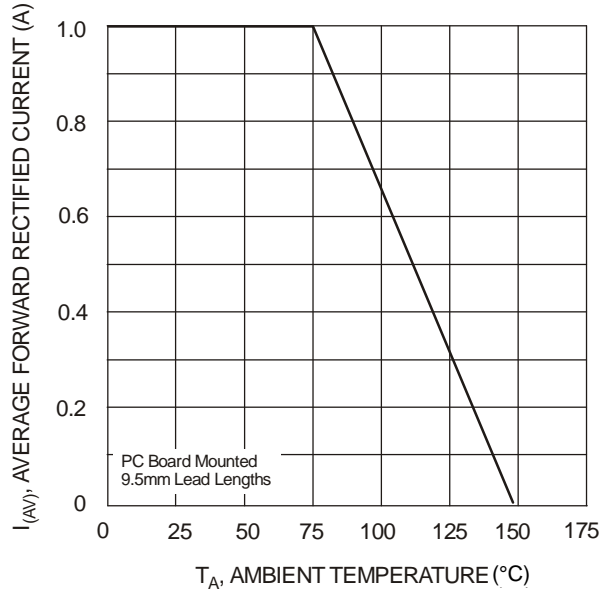
- Notes:
1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
 2. See <https://www.diodes.com/quality/lead-free/> for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
 3. For packaging details, go to our website at <https://www.diodes.com/design/support/packaging/diodes-packaging/>.

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 | V _{RRM} | | | | | | | |
| Working Peak Reverse Voltage | V _{RWM} | 50 | 100 | 200 | 400 | 600 | V | |
| DC Blocking Voltage (Note 7) | V _R | | | | | | | |
| RMS Reverse Voltage | V _{R(RMS)} | 35 | 70 | 140 | 280 | 420 | V | |
| Average Rectified Output Current (Note 4) @ T _A = +75°C | I _O | 1.0 | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load | I _{FSM} | 30 | | | | | | A |
| Forward Voltage Drop @ I _F = 1.0A | V _{FM} | 1.2 | | | | | | V |
| Peak Reverse Current @ T _A = +25°C at Rated DC Blocking Voltage (Note 7) @ T _A = +100°C | I _{RM} | 5.0 | | | | | | μA |
| Reverse Recovery Time (Note 6) | t _{RR} | 100 | | | | | | ns |
| Typical Total Capacitance (Note 5) | C _T | 200 | | | | | | pF |
| Typical Thermal Resistance Junction to Ambient | R _{θJA} | 15 | | | | | | °C/W |
| Operating and Storage Temperature Range | T _J , T _{STG} | -65 to +150 | | | | | | °C |

- Notes:
4. Leads maintained at ambient temperature at a distance of 9.5mm from the case.
 5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 6. Measured with I_F = 0.5A, I_R = 1A, I_{rr} = 0.25A.
 7. Short duration pulse test used to minimize self-heating effect.



T_A , AMBIENT TEMPERATURE (°C)
Fig. 1 Forward Current Derating Curve

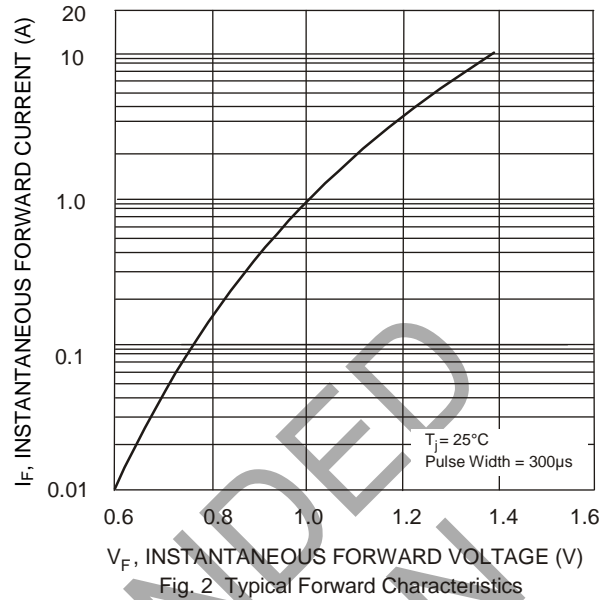


Fig. 2 Typical Forward Characteristics

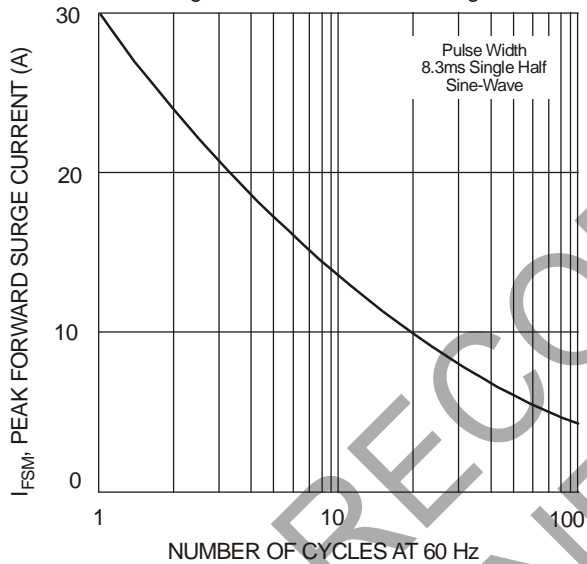


Fig. 3 Max Non-Repetitive Peak Forward Surge Current

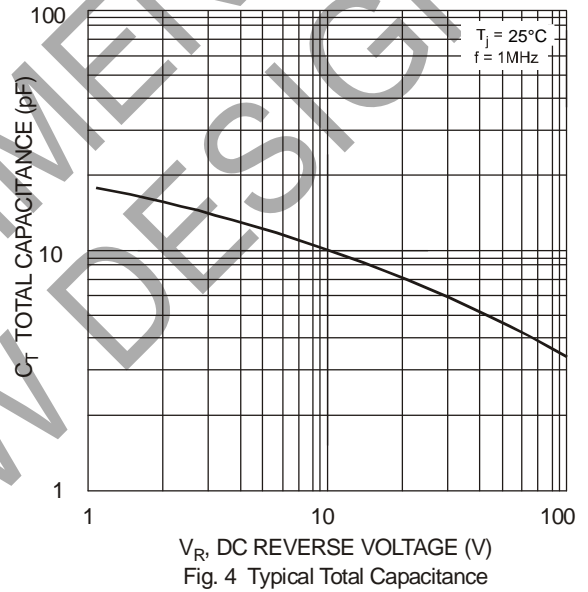


Fig. 4 Typical Total Capacitance

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