

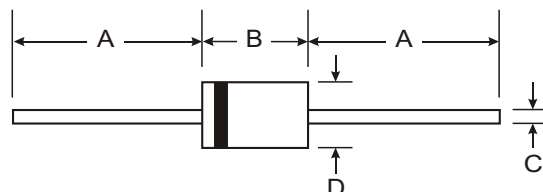
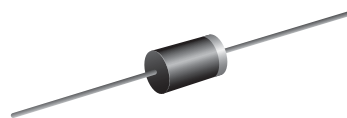
VOLTAGE RANGE: 300 - 400V
CURRENT: 1.0 A

Features

- Highcurrent capability
- Highsurgecurrent capability
- Highreliability
- Lowreversecurrent
- Low forwardvoltage drop
- Superfast recovery time

Mechanical Data

- Case: D O - 4 1 , 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 |
| A | 25.40 | — |
| B | 4.06 | 5.21 |
| C | 0.71 | 0.864 |
| D | 2.00 | 2.72 |
| All Dimensions in mm | | |

Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

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

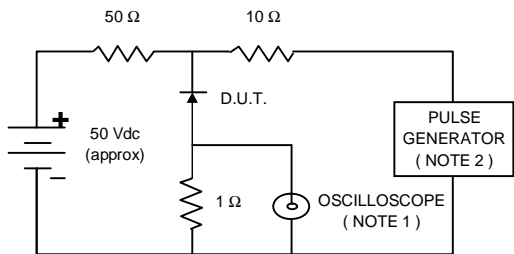
| Characteristic | Symbol | 11DF3 | 11DF4 | Unit |
|-----------------------------------------------------------------------------------------------------------------|-------------|---------------|-------|------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 300 | 400 | V |
| Maximum RMS Voltage | V_{RMS} | 210 | 280 | V |
| Maximum DC Blocking Voltage | V_{DC} | 300 | 400 | V |
| Maximum Average Forward Current $T_a = 57^\circ\text{C}$ | $I_{F(AV)}$ | 1.0 | | A |
| Maximum Peak Forward Surge Current, 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method) | I_{FSM} | 30 | | A |
| Maximum Peak Forward Voltage at $I_F = 1.0\text{ A}$ | V_F | 1.25 | | V |
| Maximum DC Reverse Current at V_{RRM} | I_R | 10 | | μA |
| Maximum Reverse Recovery Time (Note 1) | T_{rr} | 35 | | ns |
| Junction Temperature Range | T_J | - 65 to + 150 | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | - 65 to + 150 | | $^\circ\text{C}$ |

Note:

(1) Reverse Recovery Test Conditions : $I_F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $I_{rr} = 0.25\text{ A}$.



FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



NOTES : 1. Rise Time = 7 ns max., Input Impedance = 1 megaohm, 22 pF.
 2. Rise time = 10 ns max., Source Impedance = 50 ohms.
 3. All Resistors = Non-inductive Types.

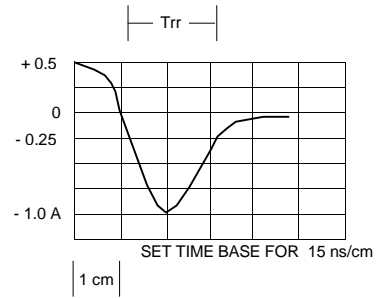


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

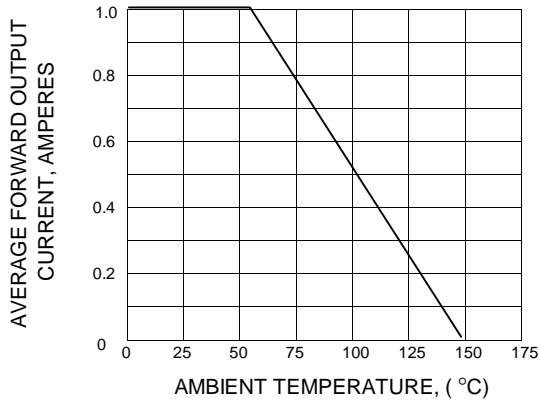


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

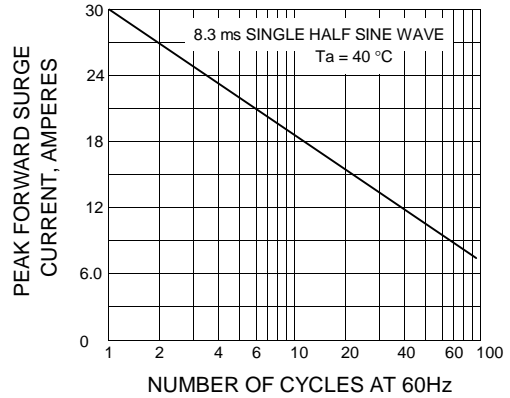


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

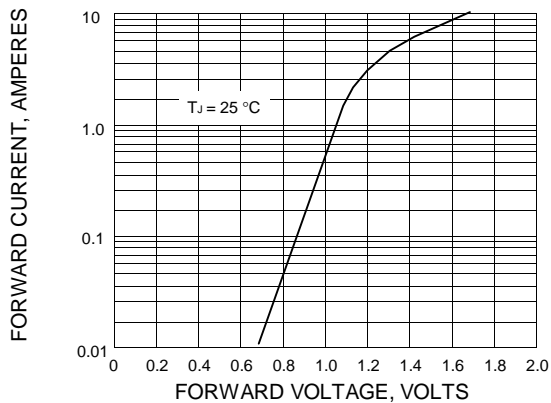


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

