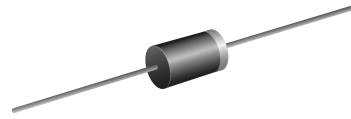


**VOLTAGE RANGE: 300 - 400V**  
**CURRENT: 1.0 A**

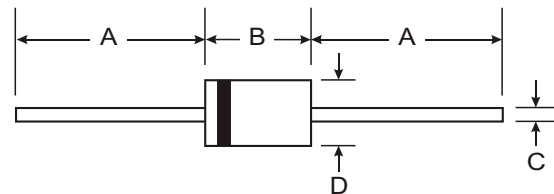


### Features

- 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<sub>A</sub> = 25°C unless otherwise specified

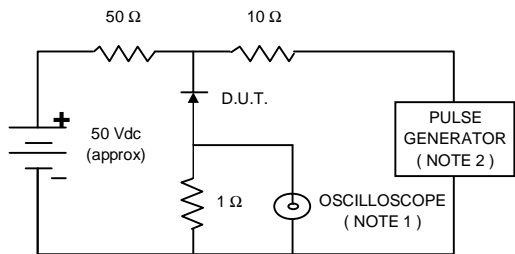
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	11DF3	11DF4	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	300	400	V
Maximum RMS Voltage	V <sub>RMS</sub>	210	280	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	300	400	V
Maximum Average Forward Current <small>T<sub>a</sub> = 57 °C</small>	I <sub>F(AV)</sub>	1.0		A
Maximum Peak Forward Surge Current, 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30		A
Maximum Peak Forward Voltage at I <sub>F</sub> = 1.0 A	V <sub>F</sub>	1.25		V
Maximum DC Reverse Current at V <sub>RRM</sub>	I <sub>R</sub>	10		μA
Maximum Reverse Recovery Time ( Note 1 )	T <sub>rr</sub>	35		ns
Junction Temperature Range	T <sub>J</sub>	- 65 to + 150		°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 150		°C

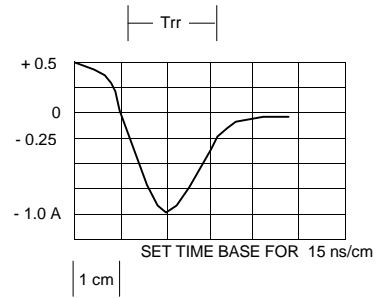
**Note:**

( 1 ) Reverse Recovery Test Conditions : I<sub>F</sub> = 0.5 A, I<sub>R</sub> = 1.0 A, I<sub>rr</sub> = 0.25 A.

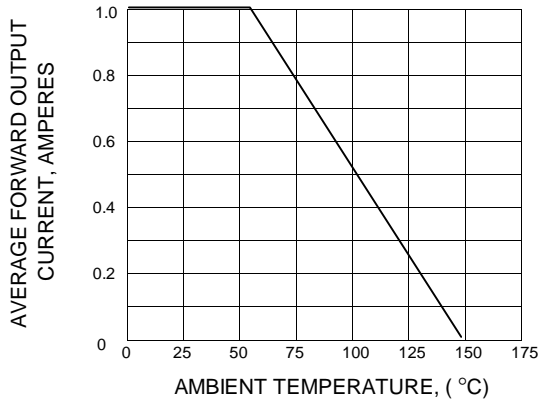
**FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**



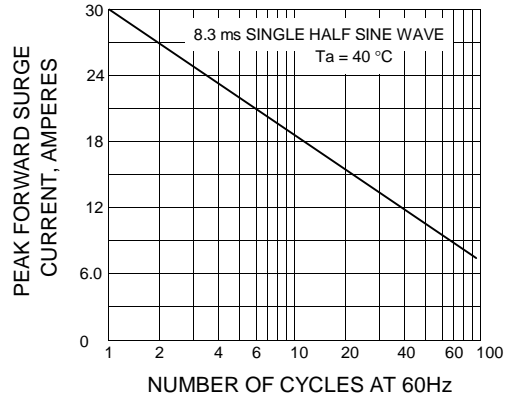
NOTES : 1. Rise Time = 7 ns max., Input Impedance = 1 megaohm, 22 pF.  
 2. Rise time = 10 ns max., Source Impedance = 50 ohms.  
 3. All Resistors = Non-inductive Types.



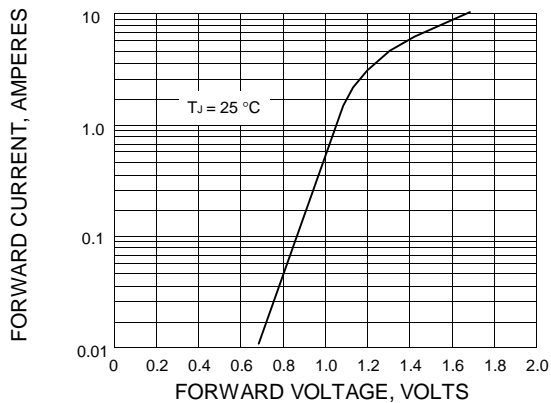
**FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



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



**FIG.4 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.5 - TYPICAL REVERSE CHARACTERISTICS**

