

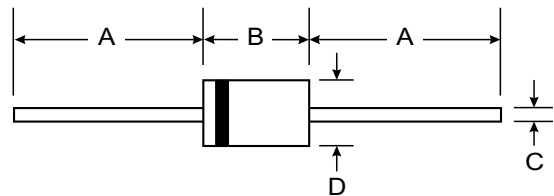
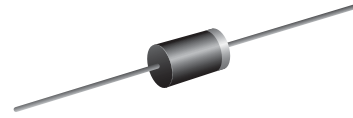
**VOLTAGE RANGE: 100 - 200V**  
**CURRENT: 1.6 A**

### Features

- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with alcohol, Isopropanol and similar solvents

### Mechanical Data

- Case: DO-201AD, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



DO-201AD		
Dim	Min	Max
A	25.40	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
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%.

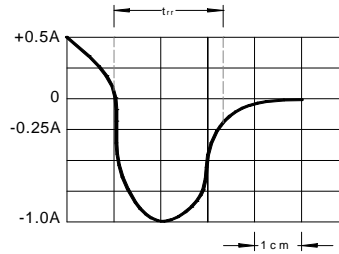
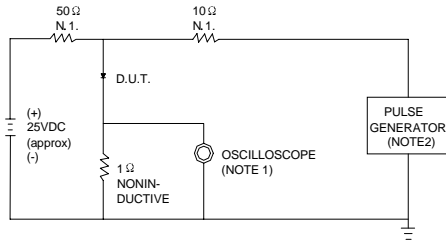
Characteristic	Symbol	31DF1	31DF2	Unit
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	100	200	V
Maximum RMS voltage	V <sub>RMS</sub>	70	140	V
Maximum DC blocking voltage	V <sub>DC</sub>	100	200	V
Maximum average forward rectified current 9.5mm lead length, @T <sub>A</sub> =75°C	I <sub>F(AV)</sub>	1.6		A
Peak forward surge current 10ms single half-sine-wave superimposed on rated load @T <sub>J</sub> =125°C	I <sub>FSM</sub>	125.0		A
Maximum instantaneous forward voltage @ I <sub>F</sub> =1.6A	V <sub>F</sub>	0.98		V
Maximum reverse current @T <sub>A</sub> =25°C at rated DC blocking voltage @T <sub>A</sub> =100°C	I <sub>R</sub>	5.0	50.0	μA
Maximum reverse recovery time (Note1)	t <sub>rr</sub>	30		ns
Typical junction capacitance (Note2)	C <sub>J</sub>	90		pF
Typical thermal resistance (Note3)	R <sub>θJA</sub>	34		°C/W
Operating junction temperature range	T <sub>J</sub>	- 55 ----- + 150		°C
Storage temperature range	T <sub>STG</sub>	- 55 ----- + 150		°C

NOTE: 1. Measured with I<sub>F</sub>=0.5A, I<sub>R</sub>=1A, I<sub>rr</sub>=0.25A.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance from junction to ambient.

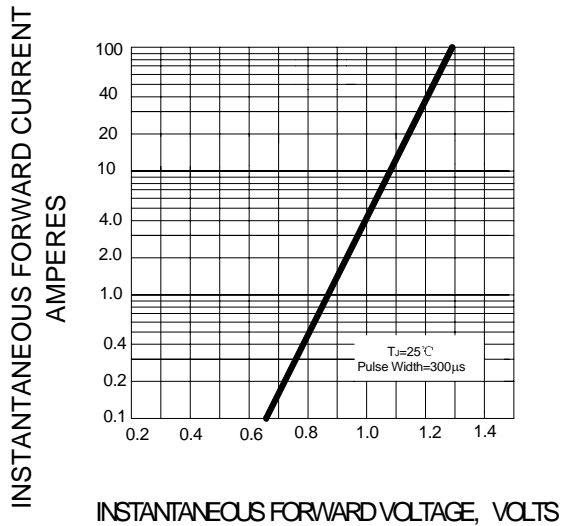
**FIG.1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC**



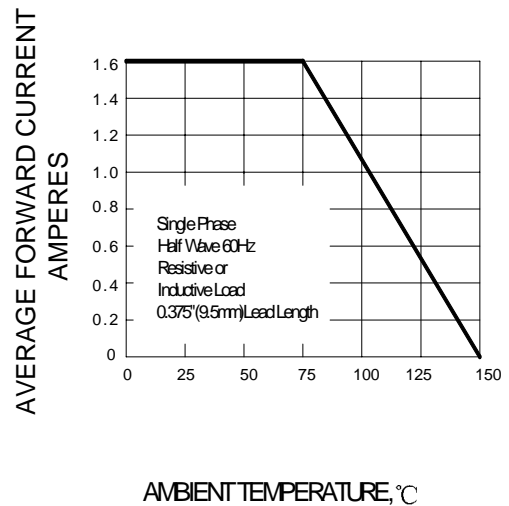
SET TIMEBASE FOR 10 ns/cm

NOTES: 1. RISE TIME = 7ns MAX INPUT IMPEDANCE = 1MΩ, 22pF.  
2. RISE TIME = 10ns MAX SOURCE IMPEDANCE = 50 Ω.

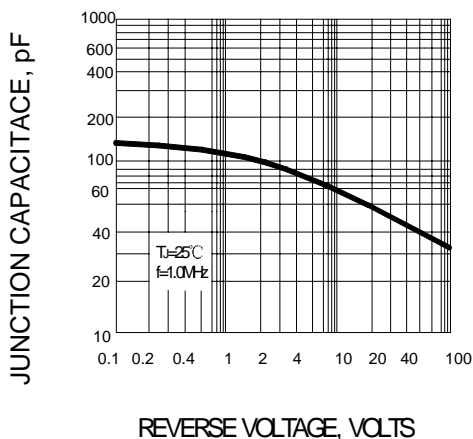
**FIG.2 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.3 – FORWARD DERATING CURVE**



**FIG.4 – TYPICAL JUNCTION CAPACITANCE**



**FIG.5 – PEAK FORWARD SURGE CURRENT**

