

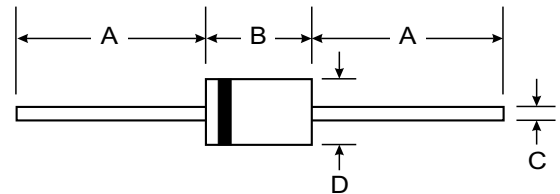
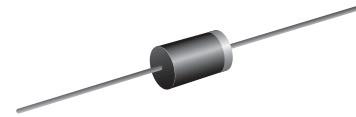
**VOLTAGE RANGE: 1300V**  
**CURRENT: 1.5-2.5 A**

### Features

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with freon, alcohol, Isopropand and similar solvents
- The plastic material carries U/L recognition 94V-0

### 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%.

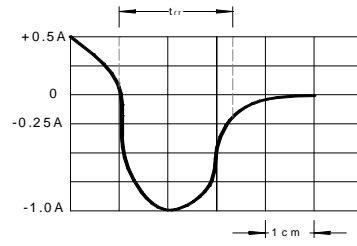
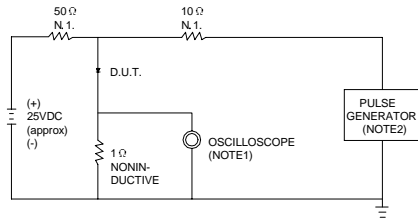
Characteristic	Symbol	RU4D	RU4DS	UNITS
Maximum peak repetitive reverse voltage	$V_{RRM}$	1300		V
Maximum RMS voltage	$V_{RMS}$	910		V
Maximum DC blocking voltage	$V_{DC}$	1300		V
Maximum average forward rectified current 9.5mm lead length, @T <sub>A</sub> =75°C	$I_{F(AV)}$	1.5	2.5	A
Peak forward surge current 10ms single half-sine-wave superimposed on rated load @T <sub>J</sub> =125°C	$I_{FSM}$	50.0		A
Maximum instantaneous forward voltage @ I <sub>F</sub> =I <sub>F(AV)</sub>	$V_F$	1.8		V
Maximum reverse current @T <sub>A</sub> =25°C at rated DC blocking voltage @T <sub>A</sub> =100°C	$I_R$	50.0	500.0	μ A
Maximum reverse recovery time (Note1)	$t_{rr}$	100.0		ns
Typical junction capacitance (Note2)	$C_J$	50		pF
Typical thermal resistance (Note3)	$R_{\theta JL}$	8		°C/W
Operating junction temperature range	$T_J$	- 55 ----- + 150		°C
Storage temperature range	$T_{STG}$	- 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 junction to lead.

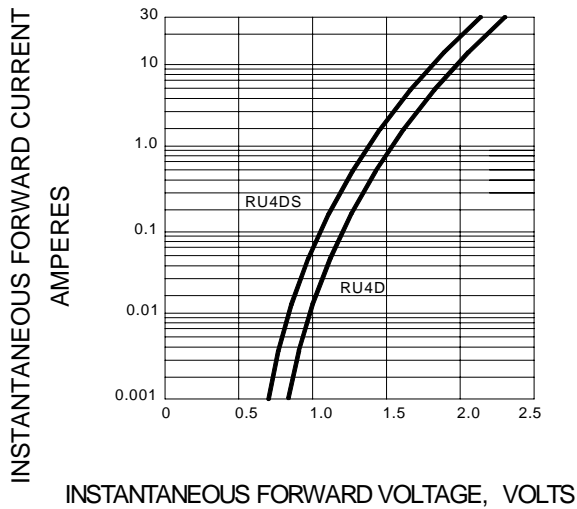
**FIG.1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC**



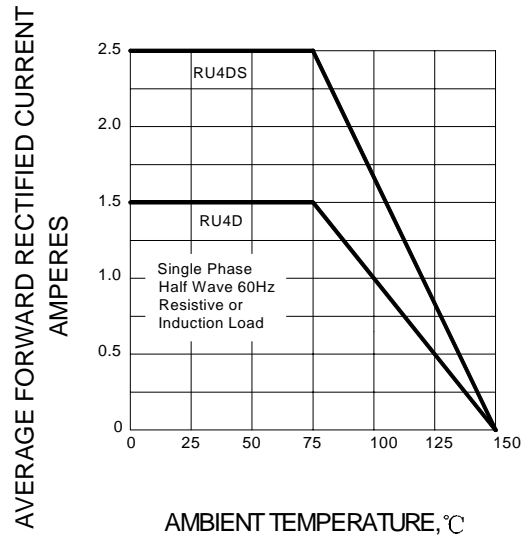
SET TIME BASE FOR 10/20 ns/cm

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

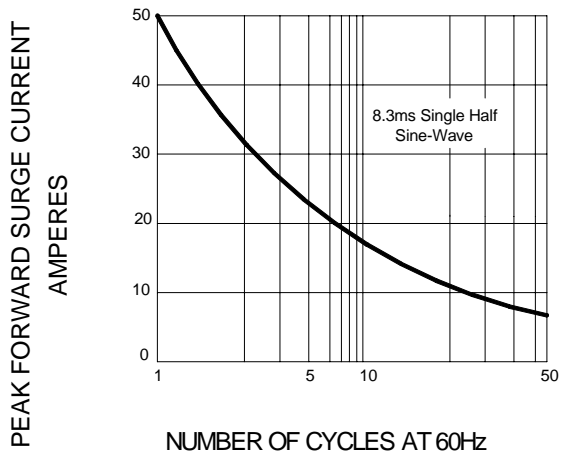
**FIG.2 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.3 – FORWARD DERATING CURVE**



**FIG.4 – PEAK FORWARD SURGE CURRENT**



**FIG.5 – TYPICAL JUNCTION CAPACITANCE**

