

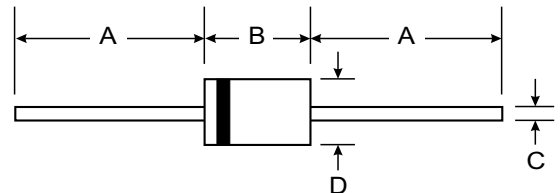
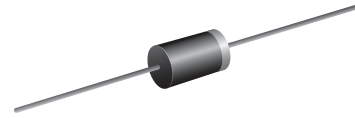
VOLTAGE RANGE: 1300V
CURRENT: 1.5-2.5 A

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_A = 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 _A =75°C	$I_{F(AV)}$	1.5	2.5	A
Peak forward surge current 10ms single half-sine-wave superimposed on rated load @T _J =125°C	I_{FSM}	50.0		A
Maximum instantaneous forward voltage @ I _F =I _{F(AV)}	V_F	1.8		V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I_R	50.0	500.0	μA
Maximum reverse recovery time (Note1)	t_{rr}	100.0		ns
Typical junction capacitance (Note2)	C_J	50		pF
Typical thermal resistance (Note3)	$R_{θJL}$	8		°C/W
Operating junction temperature range	T_J	- 55 ----- + 150		°C
Storage temperature range	T_{STG}	- 55 ----- + 150		°C

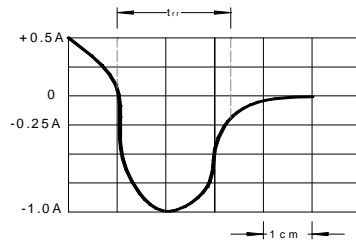
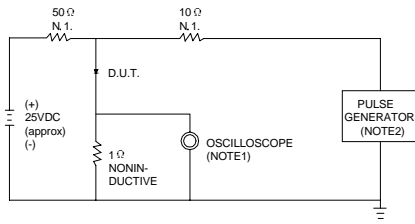
NOTE: 1. Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A.

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



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

SET TIME BASE FOR 10/20 ns/cm

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

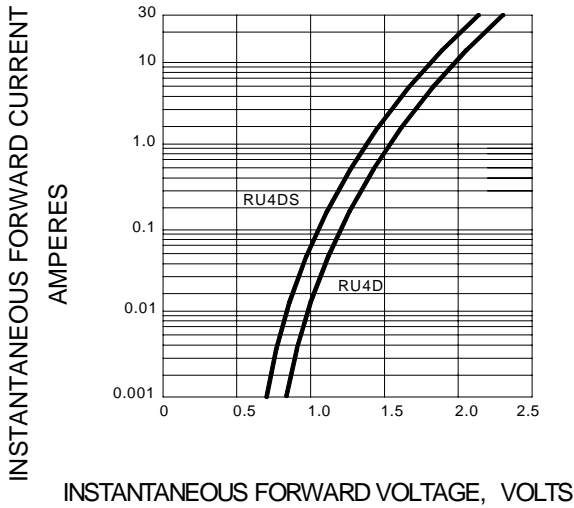


FIG.3 – FORWARD DERATING CURVE

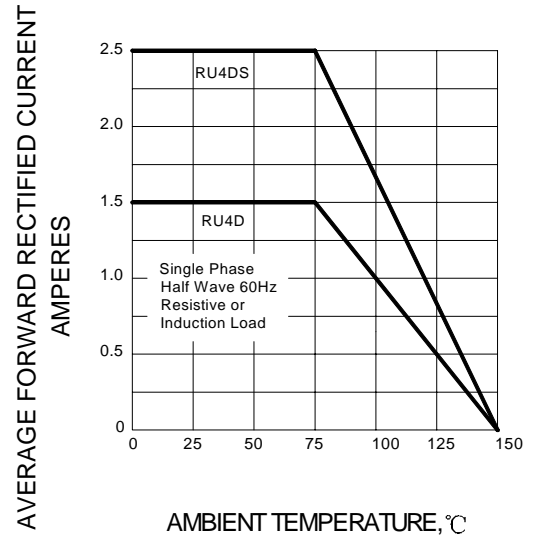


FIG.4 – PEAK FORWARD SURGE CURRENT

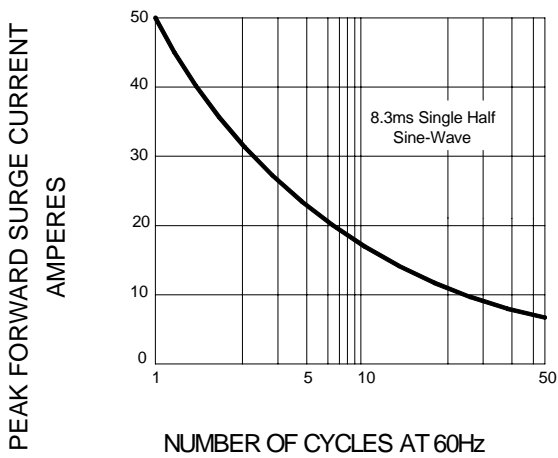


FIG.5 – TYPICAL JUNCTION CAPACITANCE

