

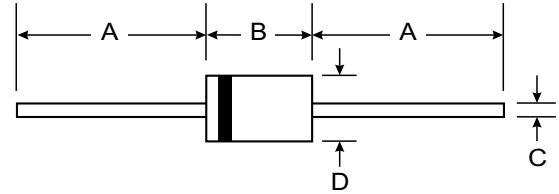
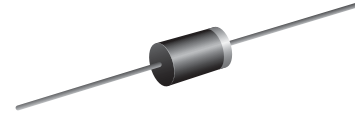
VOLTAGE RANGE: 1300 - 1500 V
CURRENT: 3.0 A

Features

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, 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_A = 25°C unless otherwise specified

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

Characteristic	Symbol	ERD09 -13S	ERD09 -15S	Unit
Maximum recurrent peak reverse voltage	V _{RRM}	1300	1500	V
Maximum RMS voltage	V _{RMS}	910	1050	V
Maximum DC blocking voltage	V _{DC}	1300	1500	V
Maximum average forward rectified current 9.5mm lead length, @ T _A =75°C	I _{F(AV)}	3.0		A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ T _J =125°C	I _{FSM}	70.0		A
Maximum instantaneous forward voltage at 3.0 A	V _F	1.5		V
Maximum reverse current @ T _A =25°C at rated DC blocking voltage @ T _A =100°C	I _R	10.0	200.0	μ A
Maximum reverse recovery time (Note1)	t _{rr}	600		ns
Typical junction capacitance (Note2)	C _J	32		pF
Typical thermal resistance (Note3)	R _{θJA}	22		°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 from junction to ambient.

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

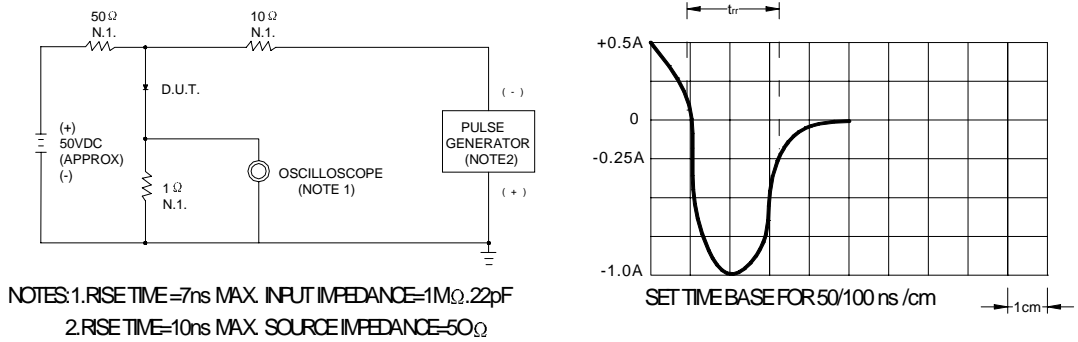


FIG.2 – FORWARD DERATING CURVE

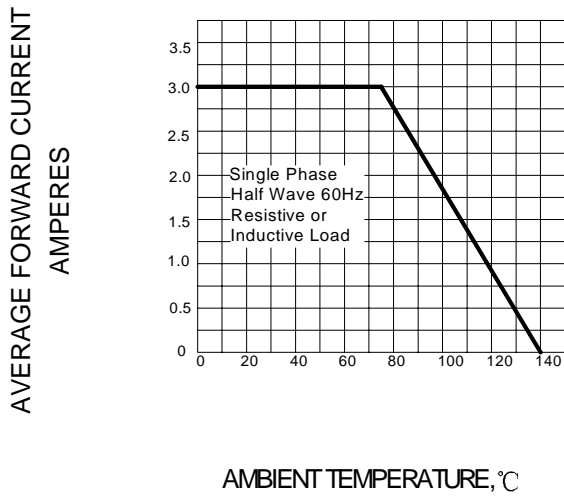


FIG.3 – PEAK FORWARD SURGE CURRENT

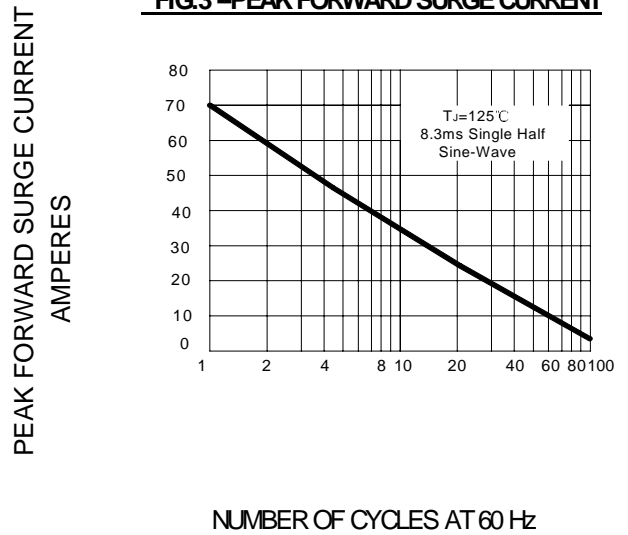


FIG.4 – TYPICAL FORWARD CHARACTERISTIC

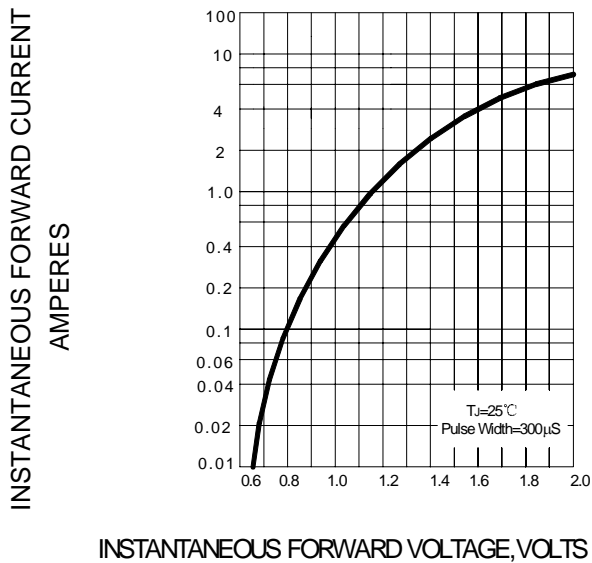


FIG.5 – TYPICAL JUNCTION CAPACITANCE

