

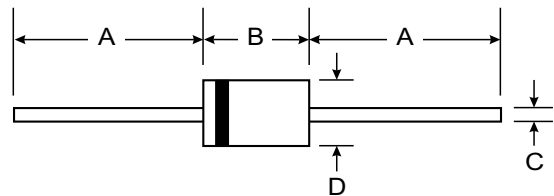
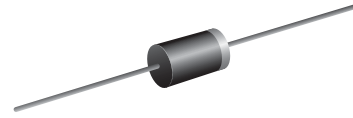
VOLTAGE RANGE: 300 - 400V
CURRENT: 1.5 A

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: Axial lead, solderable per MIL-STD202, method 208
- Polarity: Color band denotes cathode
- Weight: 0.041 ounces, 1.15 grams
- Mounting position: Any



| 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%.

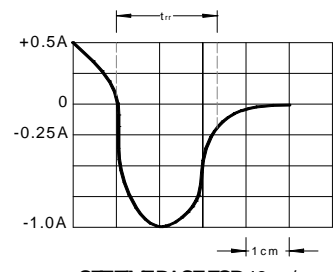
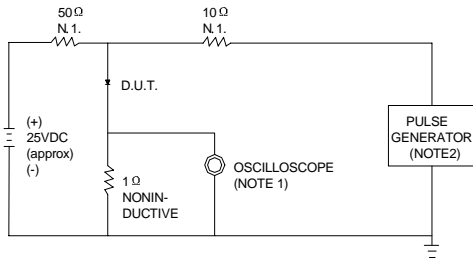
| | | 31DF3 | 31DF4 | UNITS |
|--|--------------------|------------------|-------|-------|
| Maximum recurrent peak reverse voltage | V _{RRM} | 300 | 400 | V |
| Maximum RMS voltage | V _{RMS} | 210 | 280 | V |
| Maximum DC blocking voltage | V _{DC} | 300 | 400 | V |
| Maximum average forward rectified current 9.5mm lead length, @T _A =75°C | I _{F(AV)} | 1.5 | | A |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T _J =125°C | I _{FSM} | 125.0 | | A |
| Maximum instantaneous forward voltage @ I _F =3A | V _F | 1.25 | | V |
| Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C | I _R | 5.0 | 50.0 | μA |
| Maximum reverse recovery time (Note1) | t _{rr} | 30 | | ns |
| Typical junction capacitance (Note2) | C _J | 90 | | pF |
| Typical thermal resistance (Note3) | R _{θJA} | 34 | | °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.



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 ns/cm

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

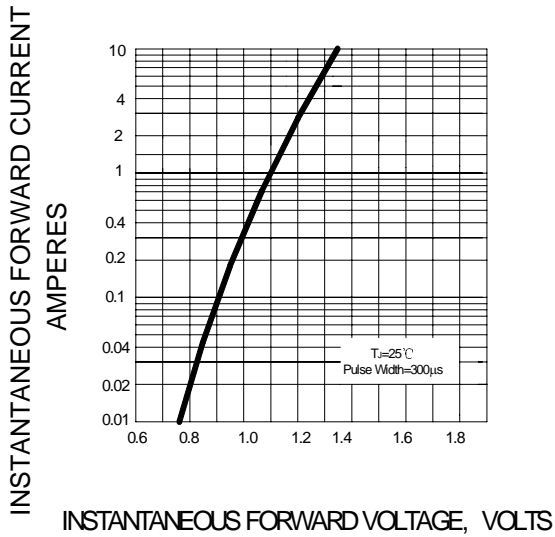


FIG.3 – FORWARD DERATING CURVE

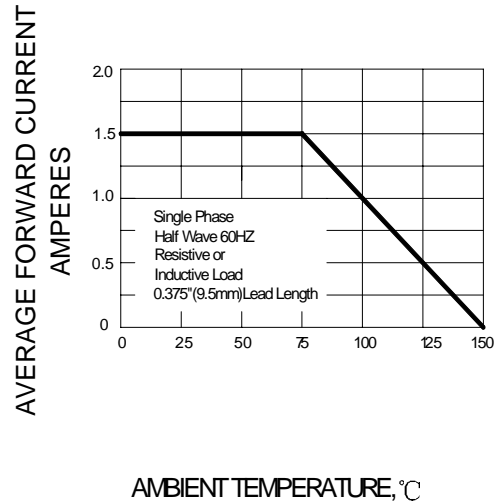


FIG.4- TYPICAL JUNCTION CAPACITANCE

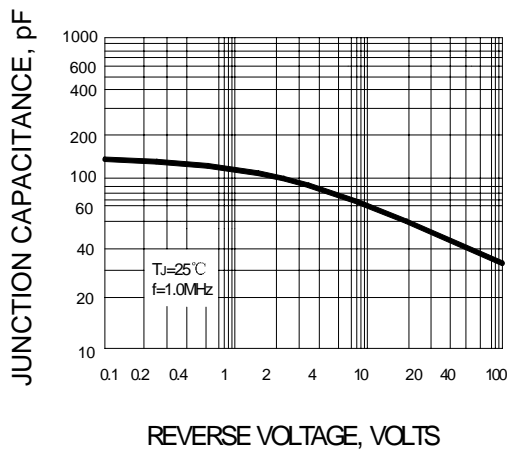


FIG.5- PEAK FORWARD SURGE CURRENT

