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ELECTRONICS

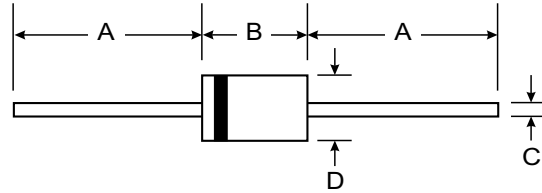
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Jameco Part Number 36311DIODESINC

Features

- Fast Switching Speed
- High Reliability
- High Conductance
- For General Purpose Switching Applications



Mechanical Data

- Case: DO-35, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Marking: Type Number
- Weight: 0.013 grams (approx.)

| DO-35 | | |
|----------------------|-------|------|
| Dim | Min | Max |
| A | 25.40 | — |
| B | — | 4.00 |
| C | — | 0.60 |
| D | — | 2.00 |
| All Dimensions in mm | | |

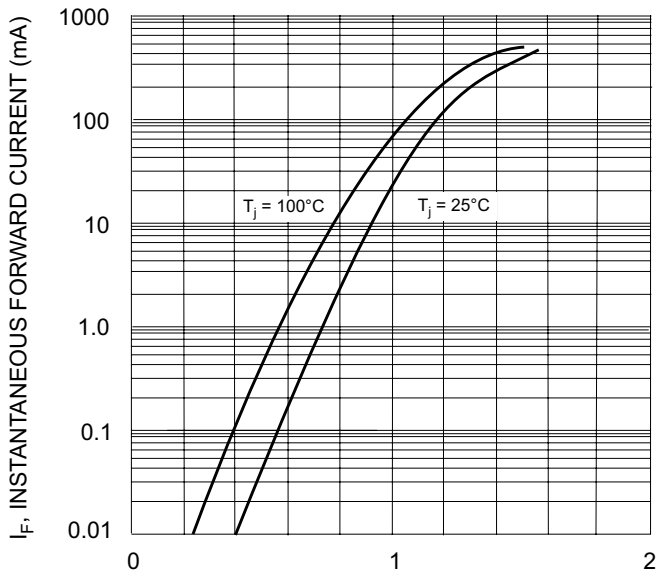
Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

| Characteristic | Symbol | Value | Unit |
|--|---------------------------------|-------------------|----------------------------|
| Non-Repetitive Peak Reverse Voltage | V_{RM} | 100 | V |
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V_{RRM} V_{RWM} V_R | 75 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 53 | V |
| Forward Continuous Current (Note 1) | I_{FM} | 150 300 | mA |
| Average Rectified Output Current (Note 1) | I_O | 75 200 | mA |
| Non-Repetitive Peak Forward Surge Current @ $t = 1.0\text{s}$ 1N914 @ $t = 1.0\mu\text{s}$ 1N914A/B @ $t = 1.0\mu\text{s}$ | I_{FSM} | 1.0 1.0 4.0 | A |
| Power Dissipation (Note 1) Derate Above 25°C | P_d | 500 1.68 | mW mW/ $^\circ\text{C}$ |
| Thermal Resistance, Junction to Ambient Air (Note 1) | $R_{\theta JA}$ | 300 | K/W |
| Operating and Storage Temperature Range | T_j, T_{STG} | -65 to +175 | $^\circ\text{C}$ |

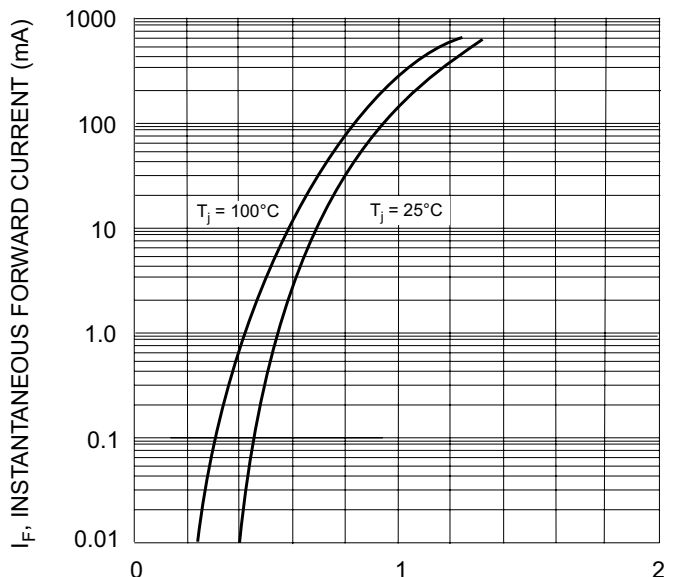
Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

| Characteristic | Symbol | Min | Max | Unit | Test Condition |
|------------------------------|----------|------|-----------------|--------------------------------------|--|
| Maximum Forward Voltage | V_{FM} | 0.62 | 0.72 | V | $I_F = 5.0\text{mA}$ $I_F = 100\text{mA}$ $I_F = 10\text{mA}$ $I_F = 20\text{mA}$ |
| Maximum Peak Reverse Current | I_{RM} | — | 5.0 50 25 | μA μA nA | $V_R = 75\text{V}$ $V_R = 20\text{V}, T_j = 150^\circ\text{C}$ $V_R = 20\text{V}$ |
| Capacitance | C_j | — | 4.0 | pF | $V_R = 0, f = 1.0\text{MHz}$ |
| Reverse Recovery Time | t_{rr} | — | 4.0 | ns | $I_F = 10\text{mA}$ to $I_R = 1.0\text{mA}$ $V_R = 6.0\text{V}, R_L = 100\Omega$ |

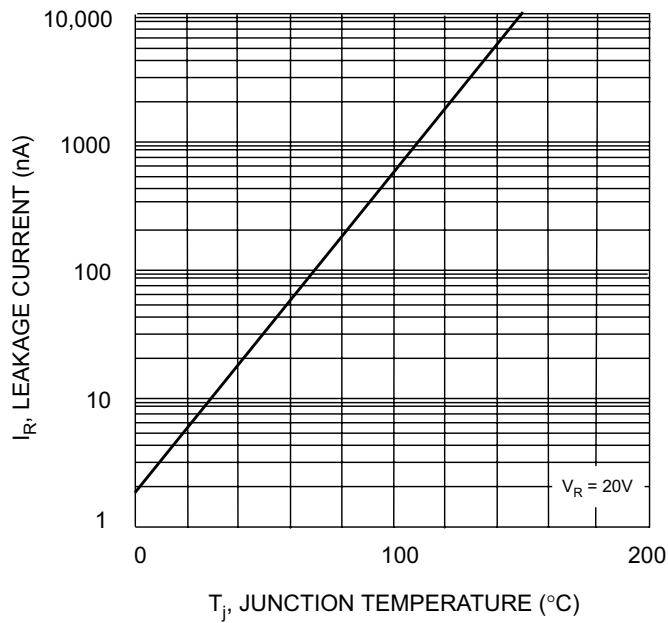
Notes: 1. Valid provided that lead are kept at ambient temperature at a distance of 8.0mm.



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 1 Forward Characteristics 1N914, 1N914A



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Forward Characteristics 1N914B



T_j , JUNCTION TEMPERATURE ($^\circ\text{C}$)
Fig. 3 Leakage Current vs Junction Temperature