

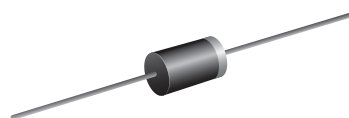
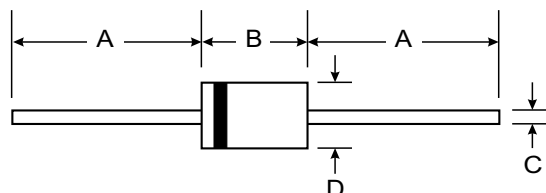
VOLTAGE RANGE: 200V
CURRENT: 3.0 A

Features

- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Super fast recovery time

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

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

Characteristic	Symbol	31GF2	Unit
Maximum Recurrent Peak Reverse Voltage	V_{rrm}	200	V
Maximum RMS Voltage	V_{rms}	140	V
Maximum DC blocking Voltage	V_{dc}	200	V
Maximum Average Forward Rectified Current, 0.375" lead length at $T_L = 110^\circ\text{C}$	$I_{f(av)}$	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{fsm}	80	A
Maximum Forward Voltage at Forward current At 3.0A (Note 1)	V_f	0.98	V
Maximum DC Reverse Current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 120^\circ\text{C}$	I_r	10.0 100.0	μA μA
Maximum Reverse Recovery Time (Note 2)	T_{rr}	30	nS
Typical Thermal Resistance	$R_{(ja)}$	30.0	$^\circ\text{C/W}$
Storage and Operating Junction Temperature	T_{stg}, T_j	-40 to +150	$^\circ\text{C}$

Note:

1. Pulse test: 300 μs pulse width, 1% duty cycle
2. Reverse Recovery Condition $I_f = 0.5\text{A}$, $I_r = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$

RATINGS AND CHARACTERISTIC CURVES 31GF2

Fig. 1 – Maximum Forward Current Derating Curve

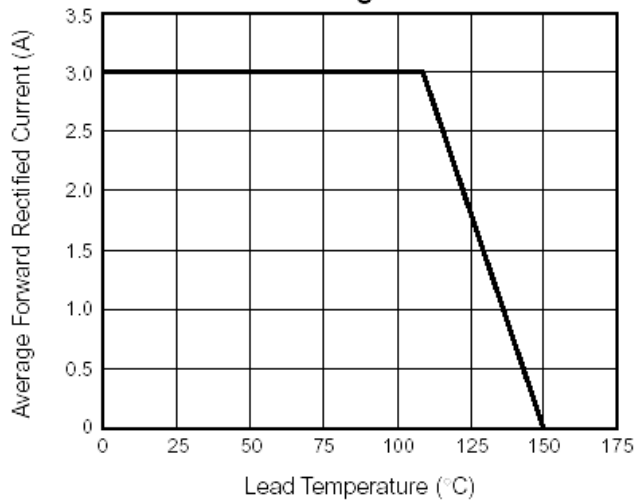


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

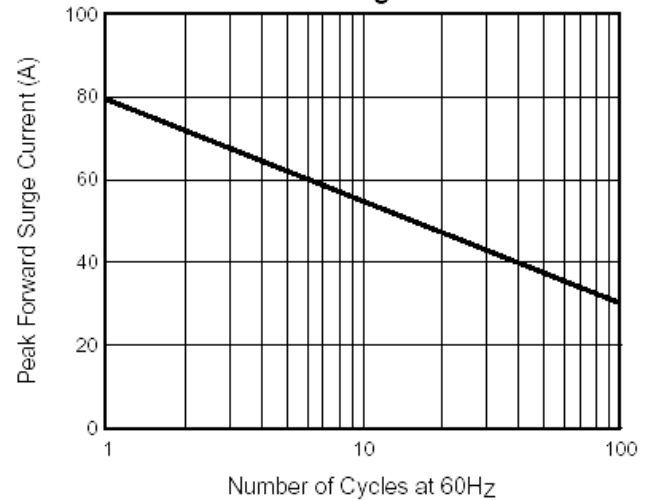


Fig. 3 – Typical Reverse Current

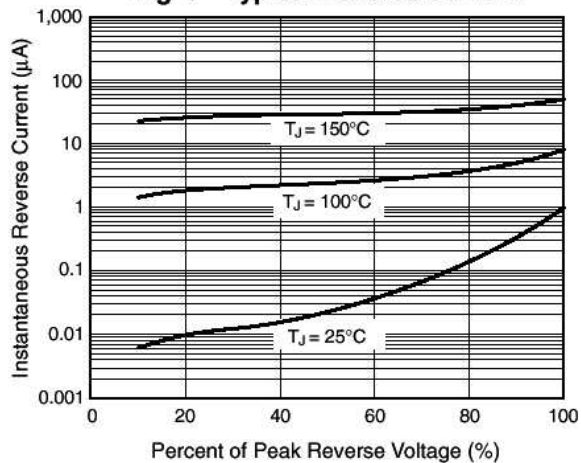


Fig. 4 – Typical Forward Voltag

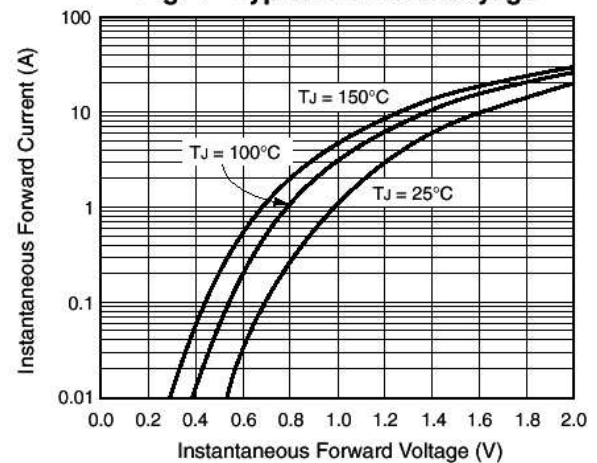


Fig. 5 – Typical Junction Capacitance

