

**VOLTAGE RANGE: 200V**  
**CURRENT: 3.0 A**

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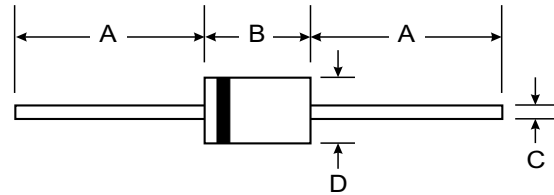
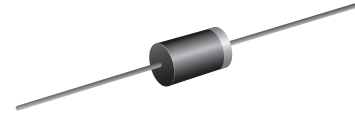
### Features

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

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### Mechanical Data

- Case : DO-201,Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 1.21 grams



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		

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### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

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

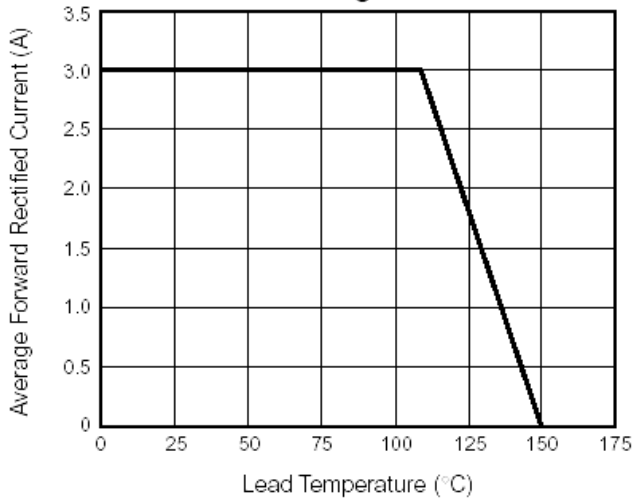
Characteristic	Symbol	31GF2	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	200	V
Maximum RMS Voltage	V <sub>rms</sub>	140	V
Maximum DC blocking Voltage	V <sub>dc</sub>	200	V
Maximum Average Forward Rectified Current, 0.375" lead length at T <sub>L</sub> =110°C	I <sub>f(av)</sub>	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	80	A
Maximum Forward Voltage at Forward current At3.0A (Note 1)	V <sub>f</sub>	0.98	V
Maximum DC Reverse Current T <sub>a</sub> =25°C at rated DC blocking voltage T <sub>a</sub> =120°C	I <sub>r</sub>	10.0 100.0	μ A μ A
Maximum Reverse Recovery Time (Note 2)	T <sub>rr</sub>	30	nS
Typical Thermal Resistance	R(ja)	30.0	°C/W
Storage and Operating Junction Temperature	T <sub>stg</sub> ,T <sub>j</sub>	-40 to +150	°C

Note:

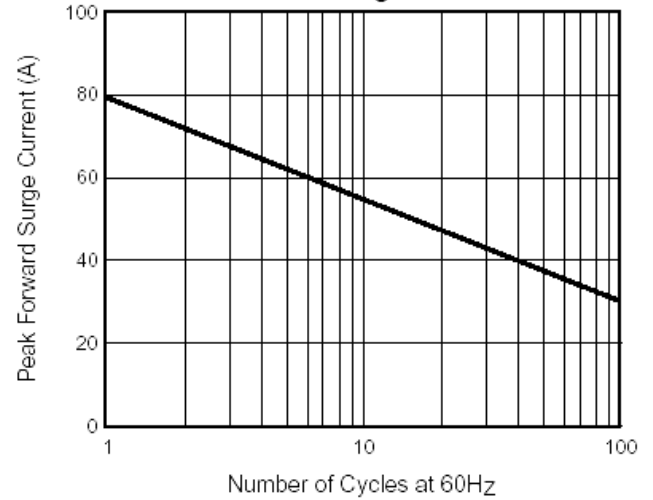
1. Pulse test:300uS pulse width, 1% duty cycle
2. Reverse Recovery Condition I<sub>f</sub> =0.5A, I<sub>r</sub> =1.0A, I<sub>rr</sub> =0.25A

### RATINGS AND CHARACTERISTIC CURVES 31GF2

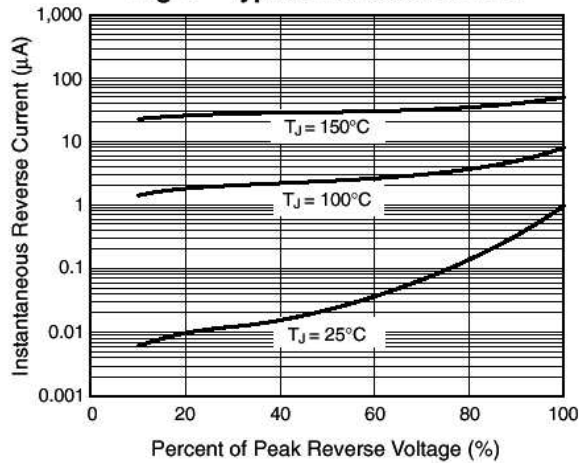
**Fig. 1 – Maximum Forward Current Derating Curve**



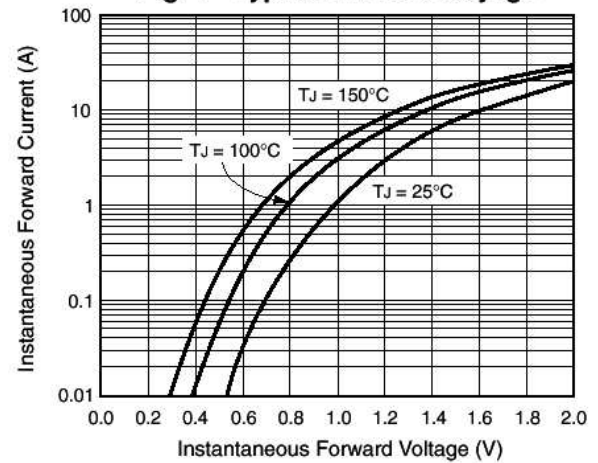
**Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current**



**Fig. 3 – Typical Reverse Current**



**Fig. 4 – Typical Forward Voltyage**



**Fig. 5 – Typical Junction Capacitance**

