

31GF4

**ULTRAFAST EFFICIENT
GLASS PASSIVATED RECTIFIER**
VOLTAGE : 400V CURRENT : 3.0A

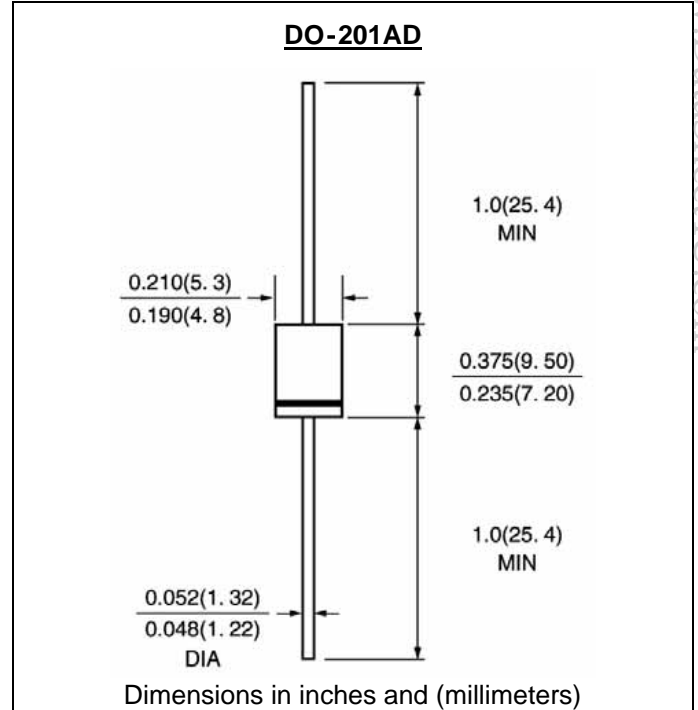


FEATURE

Low power loss
High surge capability
Ultra-fast recovery time for high efficiency
High temperature soldering guaranteed
250 /10sec/0.375 lead length at 5 lbs tension

MECHANICAL DATA

Terminal : Plated axial leads solderable per MIL-STD 750, method 2026
Case : Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity : color band denotes cathode
Mounting position : any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25 , unless otherwise stated)

	SYMBOL	31GF4	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	400	V
Maximum RMS Voltage	V _{rms}	280	V
Maximum DC blocking Voltage	V _{dc}	400	V
Maximum Average Forward Rectified Current, 0.375 lead length at TL =110	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 At3.0A (Note 1)	V _f	1.25	V
Maximum DC Reverse Current Ta =25 at rated DC blocking voltage Ta =120	I _r	20.0 200.0	μ A μ A
Maximum Reverse Recovery Time (Note 2)	T _{rr}	30	nS
Typical Thermal Resistance	R(ja)	80.0	/W
Storage and Operating Junction Temperature	T _{stg} , T _j	-40 to +150	

Note :

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

Fig. 1 – Maximum Forward Current Derating Curve

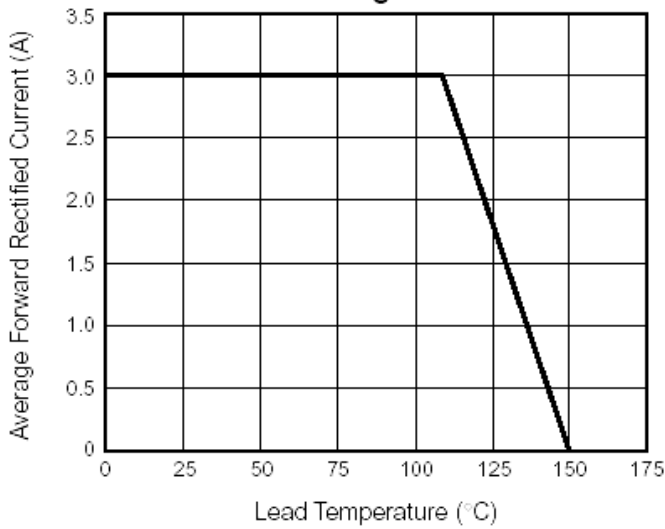


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

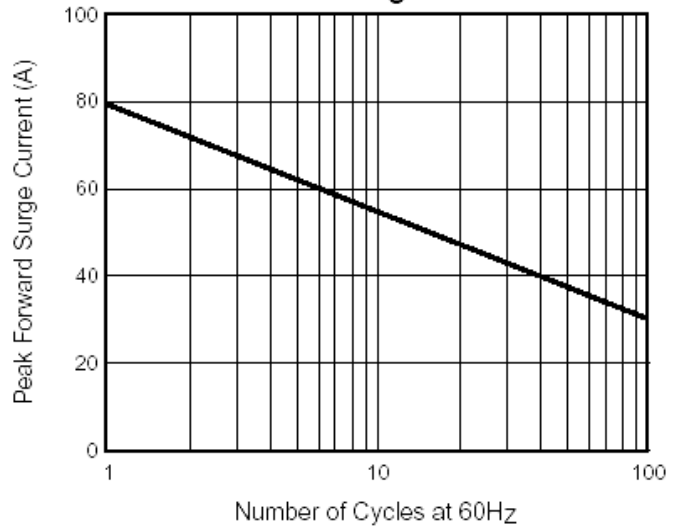


Fig. 3 – Typical Reverse Characteristics

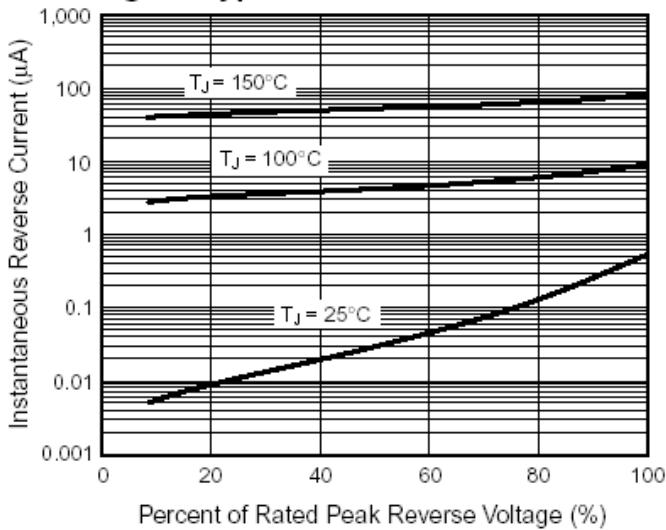


Fig. 4 – Typical Instantaneous Forward Characteristics

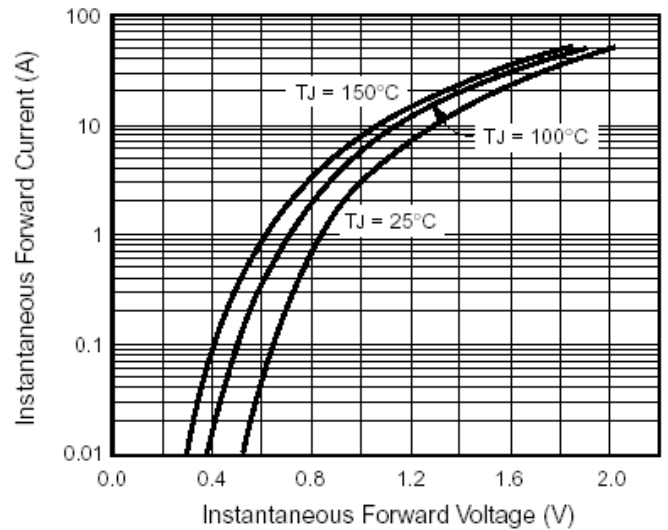


Fig. 5 – Typical Junction Capacitance

