## 31**GF7**

# ULTRAFAST EFFICIENT GLASS PASSIVATED RECTIFIER

VOLTAGE: 700V 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**

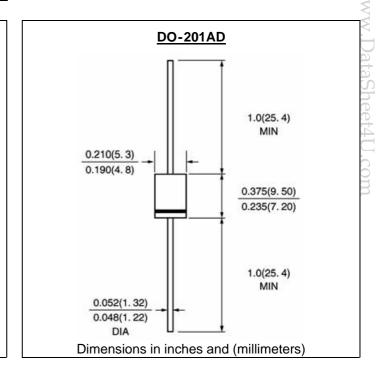
Terminal: Plated axial leads solderable per MIL-STD 750, method 2026

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)

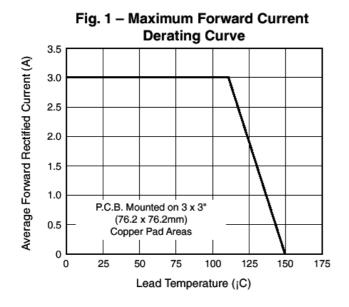
	SYMBOL	31GF7	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	700	V
Maximum RMS Voltage	Vrms	490	V
Maximum DC blocking Voltage	Vdc	700	V
Maximum Average Forward Rectified Current, 0.375 lead length at TL =110	If(av)	3.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	90	А
Maximum Forward Voltage at Forward current At3.0A (Note 1)	Vf	1.6	V
Maximum DC Reverse Current Ta =25	Ir	10.0	μA
at rated DC blocking voltage Ta =120		100.0	μΑ
Maximum Reverse Recovery Time (Note 2)	Trr	30	nS
Typical Thermal Resistance	R(ja)	30.0	/W
Storage and Operating Junction Temperature	Tstg,Tj	-40 to +150	

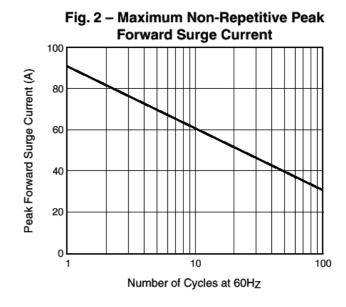
#### Note:

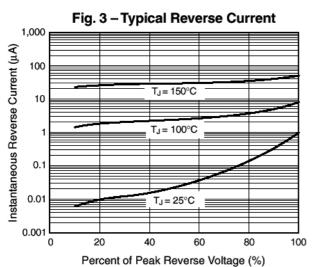
- 1. Pulse test:300uS pulse width, 1% duty cycle
- 2. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

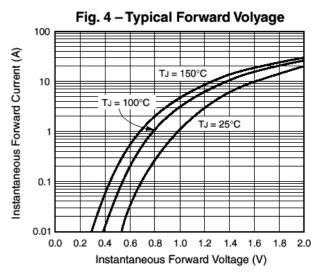
Rev.4, 1-Jul-03 www.gulfsemi.com

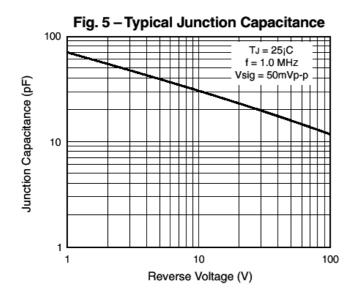
#### **RATINGS AND CHARACTERISTIC CURVES 31GF7**











<sup>1</sup> Rev.4, 1-Jul-03 www.gulfsemi.com