# 1N4001G THRU 1N4007G

### **GLASS PASSIVATED** JUNCTION RECTIFIER

VOLTAGE: 50 TO 1000V

CURRENT: 1.0A

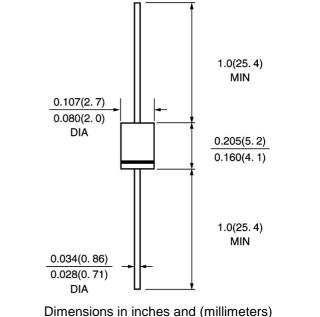
### **FEATURE**

Molded case feature for auto insertion High current capability Low leakage current High surge capability High temperature soldering guaranteed 250℃ /10sec/0.375" lead length at 5 lbs tension **Glass Passivated chip** 

# GULF SBMI DO - 41\DO - 204AL 1.0(25.4) MIN 0.107(2.7) 0.080(2.0)

#### **MECHANICAL DATA**

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C 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, for capacitive load, derate current by 20%)

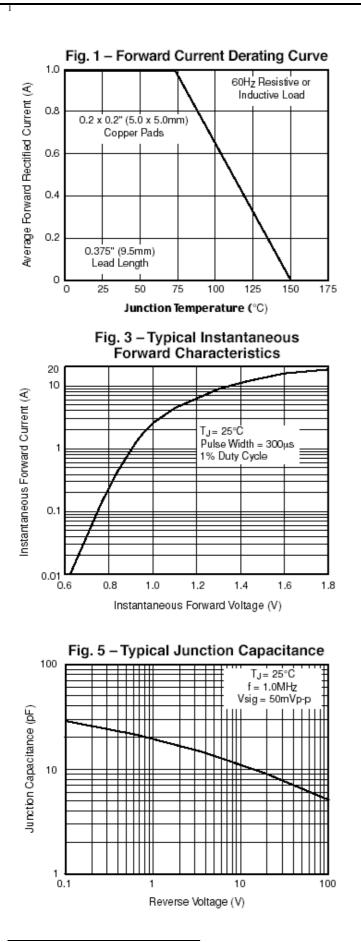
	SYMBOL	1N40	1N40	1N40	1N40	1N40	1N40	1N40	units
		01G	02G	03G	04G	05G	06G	07G	
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta =75℃	lf(av)	1.0							Α
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	lfsm	30.0							А
Maximum Instantaneous Forward Voltage at rated forward current	Vf	1.1							V
Maximum full load reverse current full cycle at $T_L = 75 $ $C$	lr(av)	30.0							μA
Maximum DC Reverse CurrentTa = $25$ °Cat rated DC blocking voltageTa = $100$ °C	lr	5.0 50.0							μΑ μΑ
Typical Junction Capacitance (Note 1)	Cj	15.0							pF
Operating Temperature (Note 2)	R(ja)	50.0							°C/V
Storage and Operation Junction Temperature	Tstg, Tj	-55 to +150							C

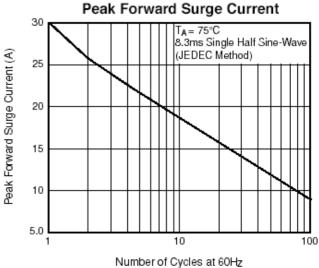
Note:

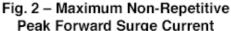
1. Measured at 1.0 MHz and applied voltage of 4.0Vdc

2. Thermal Resistance from Junction to Ambient at 0.375" lead length, P.C. Board Mounted









Number of Oysies at on g

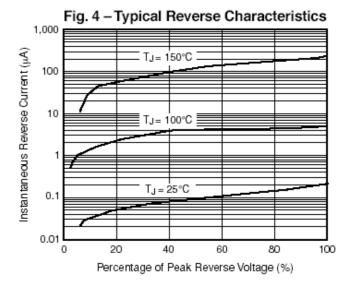
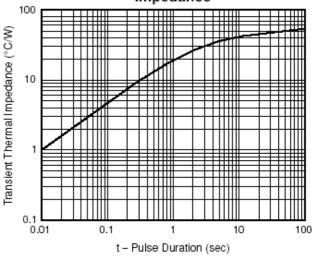


Fig. 6 – Typical Transient Thermal Impedance



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