1N4007G-1

GLASS PASSIVATED JUNCTION RECTIFIER

VOLTAGE: 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

MECHANICAL DATA

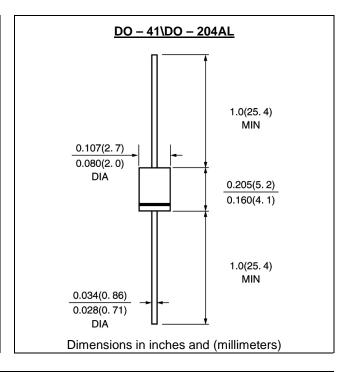
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

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	1N4007G-1	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	1000	V
Maximum RMS Voltage	Vrms	700	V
Maximum DC blocking Voltage	Vdc	1000	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta =75℃	If(av)	1.0	А
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	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℃	Ir(av)	30.0	μA
Maximum DC Reverse Current Ta =25 $^{\circ}$ C at rated DC blocking voltage Ta =100 $^{\circ}$ C	lr	5.0 50.0	μA
Reverse Recovery Time Range (Note 1)	Trr	900~1300	nS
Typical Junction Capacitance (Note 2)	Cj	15.0	pF
Typical Thermal Resistance (Note 3)	R(ja)	50.0	€W
Storage and Operation Junction Temperature	Tstg, Tj	-55 to +150	C

Note:

- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 0.375" lead length, P.C. Board Mounted

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RATINGS AND CHARACTERISTIC CURVES 1N4007G-1

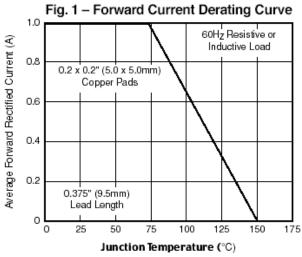


Fig. 3 – Typical Instantaneous
Forward Characteristics

20
10
T_J= 25°C
Pulse Width = 300µs
1% Duty Cycle

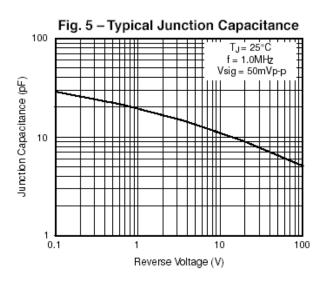
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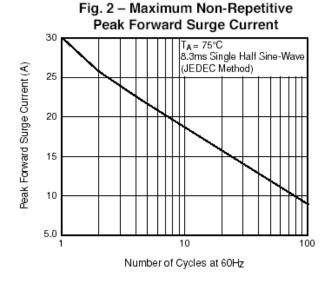
Instantaneous Forward Voltage (V)

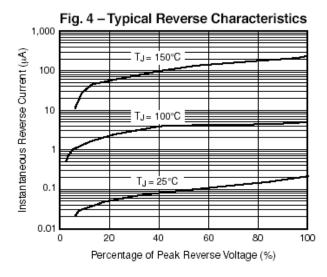
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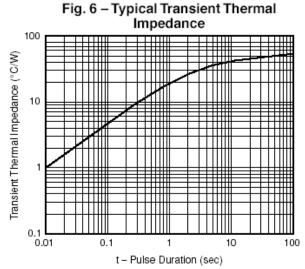
1.4

1.8









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0.6

0.8

1.0