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Product: General Purpose Rectifiers

Product	Family	$I_{F(AV)}$ (A)	I_{FSM} (A)	V_{RRM} (V)	V_F (V)	OUTLINE
1N4007GP	1N4000GP	1.0	30	1000	1.1	DO-41

1 Amp. Glass Passivated Junction Rectifier

<p>Dimensions in mm.</p> <p style="text-align: right;">DO-41 (Plastic)</p> <p>Mounting instructions</p> <ol style="list-style-type: none"> 1. Min. distance from body to soldering point, 4 mm. 2. Max. solder temperature, 350 °C. 3. Max. soldering time, 3.5 sec. 4. Do not bend lead at a point closer than 2 mm. to the body 	<p>Voltage 50 to 1000 V.</p> <p>Current 1.0 A. at 75 °C.</p>
	<ul style="list-style-type: none"> • Glass passivated junction • High current capability • The plastic material carries U/L recognition 94V-0 • Terminals: Axial Leads • Polarity: Color band denotes cathode

Maximum Ratings, according to IEC publication No. 134

		1N 4001GP	1N 4002GP	1N 4003GP	1N 4004GP	1N 4005GP	1N 4006GP	1N 4007GP
V_{RRM}	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward current at $T_{amb} = 75\text{ °C}$	1.0 A						
I_{FRM}	Recurrent peak forward current	10 A						
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	30 A						
T_j	Operating temperature range	- 65 to + 175 °C						
T_{stg}	Storage temperature range	- 65 to + 175 °C						
E_{RSM}	Maximum non repetitive peak reverse avalanche energy. $I_R = 0.5\text{ A}$; $T_j = 25\text{ °C}$	20 mJ						

Electrical Characteristics at $T_{amb} = 25\text{ °C}$

V_F	Max. forward voltage drop at $I_F = 1\text{ A}$	1.1 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 125 °C	5 $\mu\text{ A}$ 50 $\mu\text{ A}$
R_{thj-a}	Thermal resistance ($l = 10\text{ mm.}$) Max. Typ.	60 °C/W 45 °C/W