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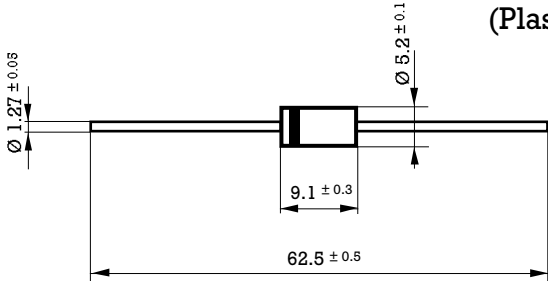

Product: Fast Recovery Rectifiers

Fast Recovery Rectifiers are devices used in applications where commutation times around 150 ÷ 500ns are required. Switching Power Supplies, Electronic Ballast, Small Household Appliances are some of the typical end uses.

Manufactured using HYPERRECTIFIER© Glass Passivated technology, we offer these devices housed either in leaded packages or SMD.

Product	Family	$I_{F(AV)}$ (A)	I_{FSM} (A)	V_{RRM} (V)	V_F (V)	T_{RR} (ns)	OUTLINE
RGP30J	RGP30	3.0	125	600	1.3	250	DO201-AD

3 Amp. Glass Passivated Fast Recovery Rectifier

<p>Dimensions in mm.</p> <p style="text-align: right;">DO-201 AD (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 3 mm. to the body. 	<p>Voltage 50 to 1000 V.</p> <p>Current 3.0 A. at 55 °C.</p> 
	<ul style="list-style-type: none"> • Glass passivated junction • High current capability • The plastic material carries U/L recognition 94 V-0 • Terminals: Axial Leads • Polarity: Color band denotes cathode

Maximum Ratings, according to IEC publication No. 134

		RGP 30A	RGP 30B	RGP 30D	RGP 30G	RGP 30J	RGP 30K	RGP 30M	RGP 30MT
V_{RRM}	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000	1000
$I_{F(AV)}$	Forward current at $T_{amb} = 55\text{ °C}$	3 A							
I_{FRM}	Recurrent peak forward current	30 A							
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	125 A							
t_{rr}	Max. reverse recovery time from $I_F = 0.5\text{ A}$ $I_R = 1\text{ A}$ $I_{RR} = 0.25\text{ A}$	150 ns			250 ns	500 ns	300 ns		
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. $I_R = 1\text{ A}$; $T_j = 25\text{ °C}$	20 mJ							

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

V_F	Max. forward voltage drop at $I_F = 3\text{ A}$	1.3 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 125 °C	5 $\mu\text{ A}$ 100 $\mu\text{ A}$
R_{thj-a}	Thermal resistance ($l = 10\text{ mm.}$) Max. Typ.	30 °C/W 15 °C/W