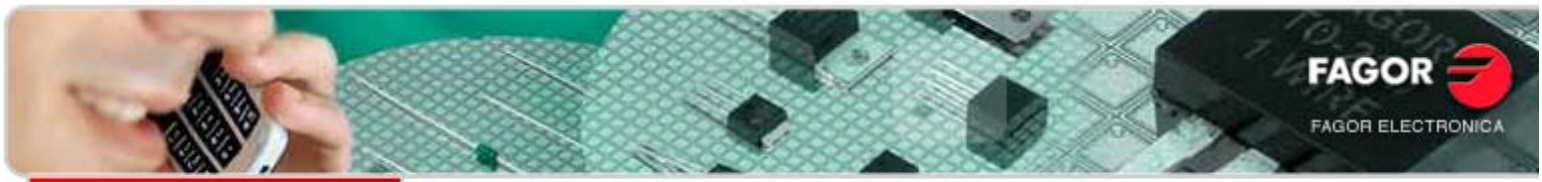


Product: Fast Recovery Rectifiers

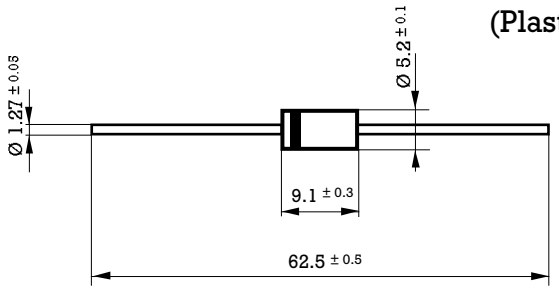
Fast Recovery Rectifiers are devices used in applications where commutation times around 150 ÷ 500ns are required. Switching Power Supplies, Electronic Ballast, Small Household Appliances are some of the typical end uses.

Manufactured using HYPERECTIFIER© 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
RGP30M	RGP30	3.0	125	1000	1.3	500	DO201-AD

3 Amp. Glass Passivated Fast Recovery Rectifier

Dimensions in mm. DO-201 AD (Plastic)



Voltage 50 to 1000 V.

Current 3.0 A. at 55 °C.

HYPERECTIFIER®

Mounting instructions

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.

- **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 Tamb = 55 °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 A, I_R = 1 A, I_{RR} = 0.25 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 = 1A ; T_J = 25 °C	20 mJ							

Electrical Characteristics at Tamb = 25 °C

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