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Product: Ultrafast Recovery Rectifiers

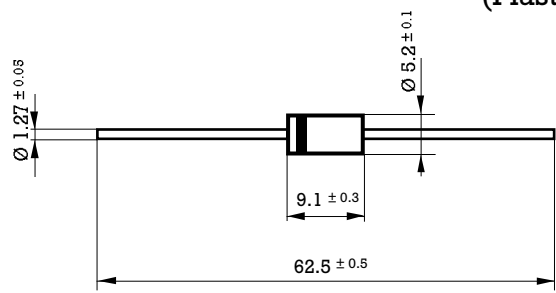

FAGOR ELECTRONICA's Ultrafast Recovery Rectifiers offer reverse recovery times down to 30ns using broad range of forward current possibilities and packages.

Ideal for high frequency applications like SMPS, Monitors, Electronic Ballast, Inverters....

Manufactured using HYPERRECTIFIER© 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
BYM36E	BYM36	3.0	65	1000	1.28	150	DO201-AD

3 Amp. Very Fast Soft Recovery Glass Passivated Avalanche Diode

<p>Dimensions in mm.</p> <p style="text-align: right;">DO-201AD (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 200 to 1000 V.</p> <p>Current 3 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

		BYM36A	BYM36B	BYM36C	BYM36D	BYM36E
V_{RRM}	Peak Recurrent reverse voltage (V)	200	400	600	800	1000
V_{RMS}	Maximum RMS voltage	140	280	420	560	700
V_{DC}	Maximum DC blocking voltage	200	400	600	800	1000
$I_{F(AV)}$	Forward current at $T_{amb} = 55\text{ °C}$ (A)	3	3	3	2.9	2.9
I_{FRM}	Recurrent peak forward current	37 A				
I_{FSM}	10 ms. peak forward surge current	65 A				
t_{rr}	Max. reverse recovery time from $I_F = 0.5\text{ A}$; $I_R = 1\text{ A}$; $I_{RR} = 0.25\text{ A}$	100 ns			150 ns	
V_{BR}	Avalanche breakdown voltage at $100\text{ }\mu\text{A}$ (V)	>300	>500	>700	>900	>1100
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 $I_F = 3\text{ A}$	at 25 °C 1.6 V	at 175 °C 1.22 V	1.78 V	1.28 V
I_R	Max. reverse current at V_{RRM}	at 25 °C 5 μA		at 165 °C 150 μA	
R_{thj-a}	Max. thermal resistance (l = 10 mm.)	30 °C/W			