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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....

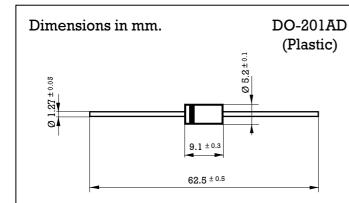
 $\label{thm:manufactured} \mbox{ Manufactured using HYPERECTIFIER} @ \mbox{ technology, we offer these devices housed either in leaded packages or SMD.}$

Product	Family	$I_{F(AV)}(A)$	$I_{FSM}(A)$	$V_{RRM}(V)$	$V_F(V)$	T _{RR} (ns)	OUTLINE
BYM36B	BYM36	3.0	65	400	1.22	100	DO201-AD





3 Amp. Very Fast Soft Recovery Glass Passivated Avalanche Diode



Voltage Current 200 to 1000 V. 3 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

		BYM36A	BYMB6B	BYM36C	BYIMB6D	BYM36E
V_{RRM}	Peak Recurrent reverse voltage (V)	200	400	600	800	1000
V _{RMS}	Maximum RMS voltage	140	280	420	560	700
VDC	Maximum DC blocking voltage	200	400	600	800	1000
I _{F(AV)}	Forward current at Tamb = 55 °C (A)	C(A) 3 3 3 2.9 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			0 ns	
V_{BR}	Avalanche breakdown voltage at 100 µ A (V)	>300	>500	>700	>900	>1100
T_{j}	Operating temperature range	− 65 to + 175 °C				
$T_{ m stg}$	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 $I_F = 3 A$	at 25 °C at 175 °C	1.6 V 1.22 V	1.78 V 1.28 V	
I_R	Max. reverse current at $V_{\mbox{\tiny RRM}}$	at 25 °C at 165 °C	5 μ A 150 μ A		
R _{thj-a}	Max. thermal resistance ($l = 1$	0 mm.)	30 °C/W		