

3 Amp. Very Fast Soft Recovery Glass Passivated Avalanche Diode

<p>Dimensions in mm.</p> <p>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
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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_{tr}	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 ($l = 10\text{ mm.}$)	30 °C/W		

Rating And Characteristic Curves

