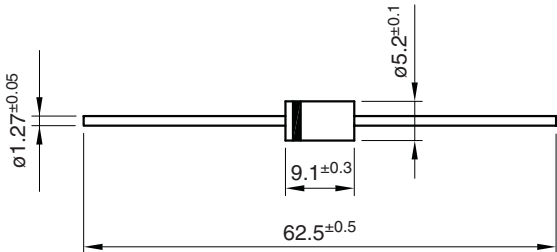



3 Amp. Glass Passivated Fast Recovery Rectifier

<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 100 to 800 V</p> <p>Current 3.0 A at 50 °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

		BY396GP	BY397GP	BY398GP	BY399GP
V_{RRM}	Peak Recurrent and non Recurrent Reverse Voltage (V)	100	200	400	800
$I_{F(AV)}$	Forward Current at $T_{amb} = 50\text{ °C}$	3 A			
I_{FRM}	Recurrent Peak Forward Current	15 A			
I_{FSM}	10 ms. Peak Forward Surge Current	100 A			
t_{rr}	Maximum reverse recovery time from $I_F = 0.5\text{ A}$; $I_R = 1\text{ A}$; $I_{RR} = 0.25\text{ A}$	150 ns			500 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	Maximum Forward Voltage Drop at $I_F = 3\text{ A}$	1.3 V
I_R	Maximum Reverse Current at V_{RRM} at 25 °C at 125 °C	5 μA 100 μA
$R_{th(j-a)}$	Thermal Resistance (l = 10mm.) Max. Typ.	30 °C/W 15 °C/W

