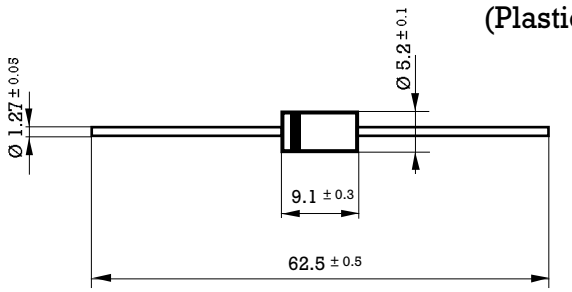
3 Amp. Glass Passivated Fast Recovery Rectifier

Dimensions in mm. DO-201 AD (Plastic)



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.

Voltage 100 to 800 V.

Current 3.0 A. at 50 °C.

HYPERECTIFIER®

- **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

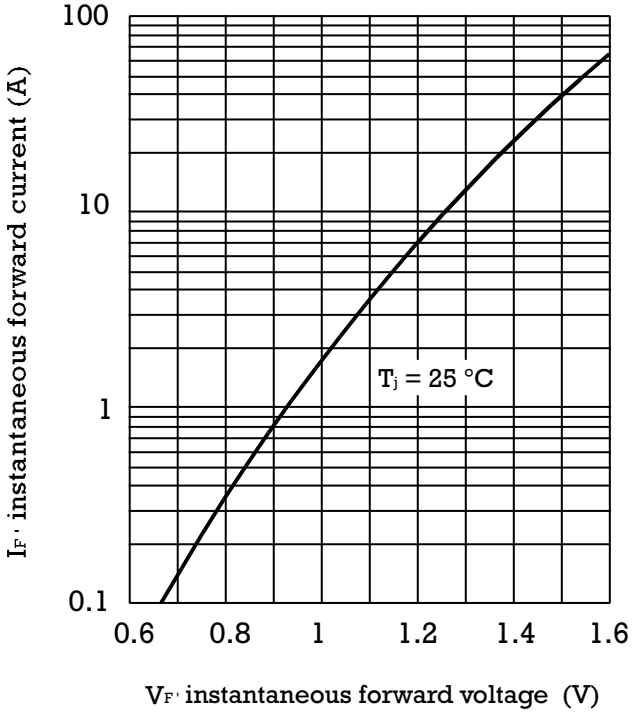
		BY396GP	BY397GP	BY398GP	BY399GP
V_{RRM}	Peak recurrent and non recurrent reverse voltage (V)	100	200	400	800
$I_{F(AV)}$	Forward current at Tamb = 50 °C	3 A			
I_{FRM}	Recurrent peak forward current (A)	15A			
I_{FSM}	10 ms. peak forward surge current	100 A			
t_{rr}	Max. reverse recovery time from I_F = 0.5 A, I_R = 1 A, I_{RR} = 0.25 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 = 1A ; T_J = 25 °C	20 mJ			

Electrical Characteristics at Tamb = 25 °C

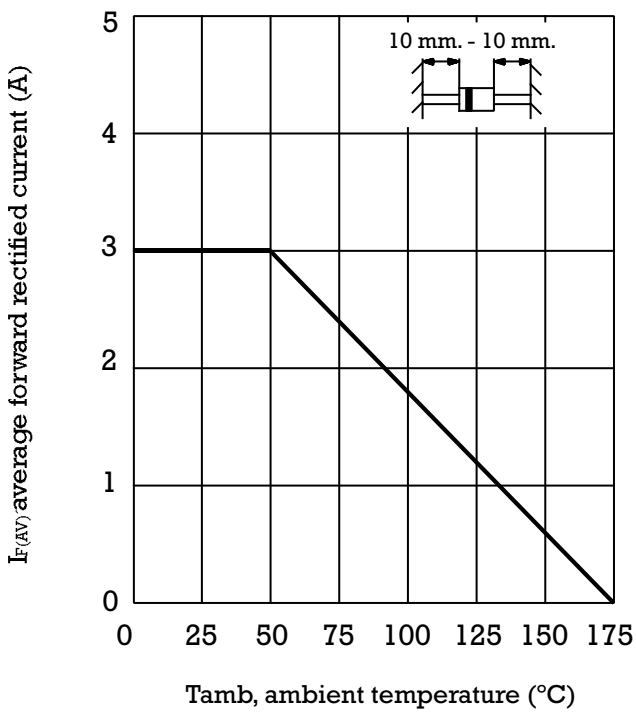
V_F	Max. forward voltage drop at I_F = 3 A	1.3 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 125 °C	5 µ A 100 µ A
R_{thj-a}	Thermal resistance (l = 10 mm.) Max. Typ.	30 °C/W 15 °C/W

Rating And Characteristic Curves

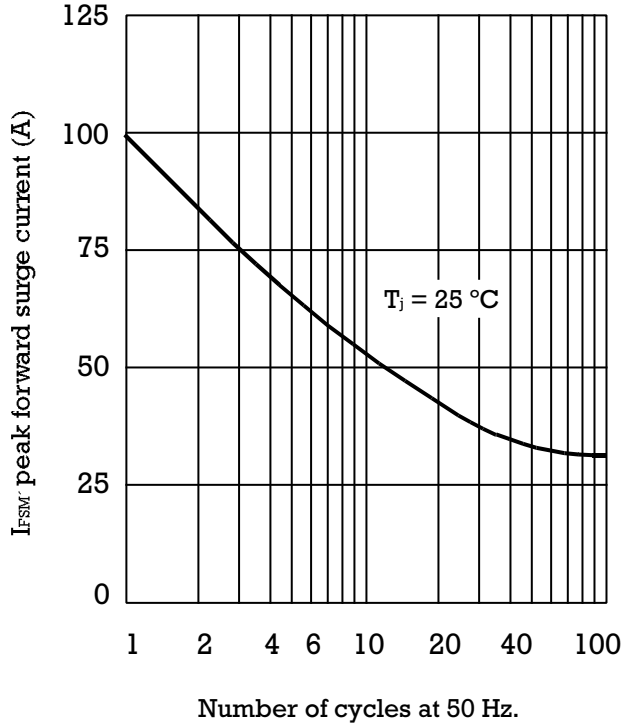
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE