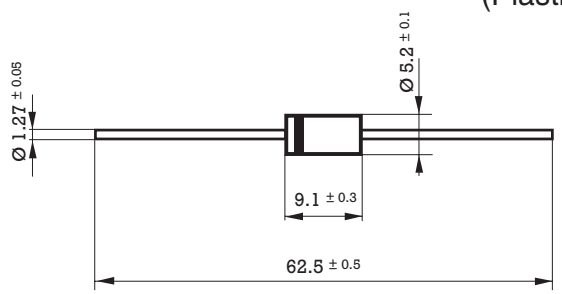
3 Amp. Very Fast Recovery Glass Passivated Avalanche Diode

Dimensions in mm. DO-201AD (Plastic)



Mounting instructions

1. Min. distance from body to soldering point, 4 mm.
2. Max. solder temperature, 350
3. Max. soldering time, 3.5
4. Do not bend lead at a point closer 3 mm. to the

Voltage
200 to 1000 V.

Current
3 A at 55 ºC.

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

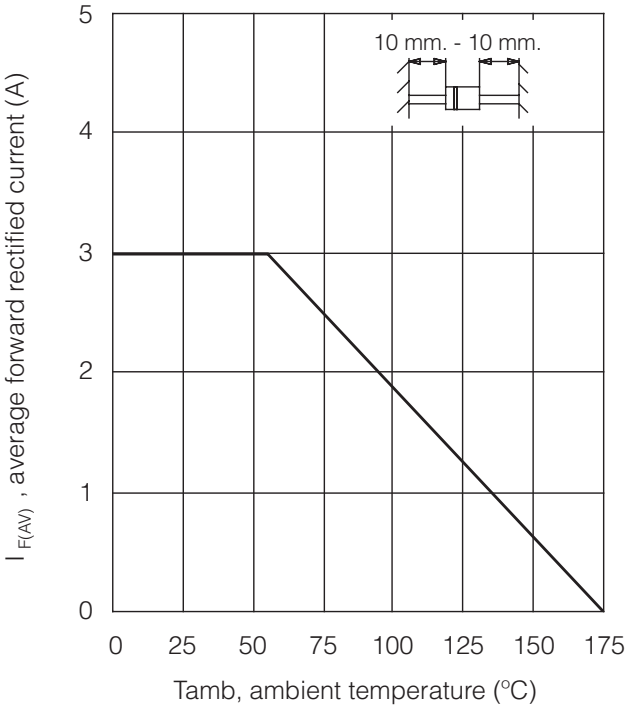
		BYM36A	BYM36B	BYM36C	BYM36D	BYM36E
V_{RRM}	Peak Recurrent reverse voltage (V)	200	400	600	800	1000
V_{RMS}	Maximum RMS voltage	140	280	420	560	700
V_{DC}	Maximum DC blocking voltage	200	400	600	800	1000
$I_{F(AV)}$	Forward current at Tamb = 55 °C (A)	3	3	3	2.9	2.9
I_{FRM}	Recurrent peak forward current	37 A				
I_{FSM}	10 ms. peak forward surge current	65 A				
t_{rr}	Max. reverse recovery time from I_F = 0.5 A ; IR = 1 A ; I_{RR} = 0.25 A	100 ns			150 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_{stg}	Storage temperature range	– 65 to + 175 °C				
E_{RSM}	Maximum non repetitive peak reverse avalanche energy. IR = 1A ; TJ = 25 ºC	20 mJ				

Electrical Characteristics at Tamb = 25 °C

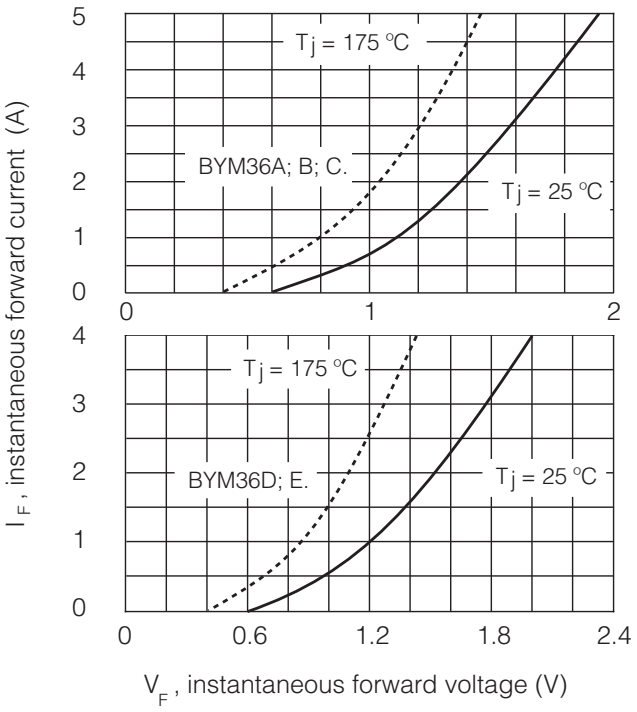
V	Max. forward voltage drop at I_F = 3 A	at 25 ºC at 175 ºC	1.6 V 1.22 V	1.78 V 1.28 V
I_R	Max. reverse current at V_{RRM}	at 25 ºC at 165 ºC	5 µ A 150 µ A	
R_{thj-a}	Max. thermal resistance (l = 10 mm.)		30 °C/W	

Rating And Charasterictic Curves

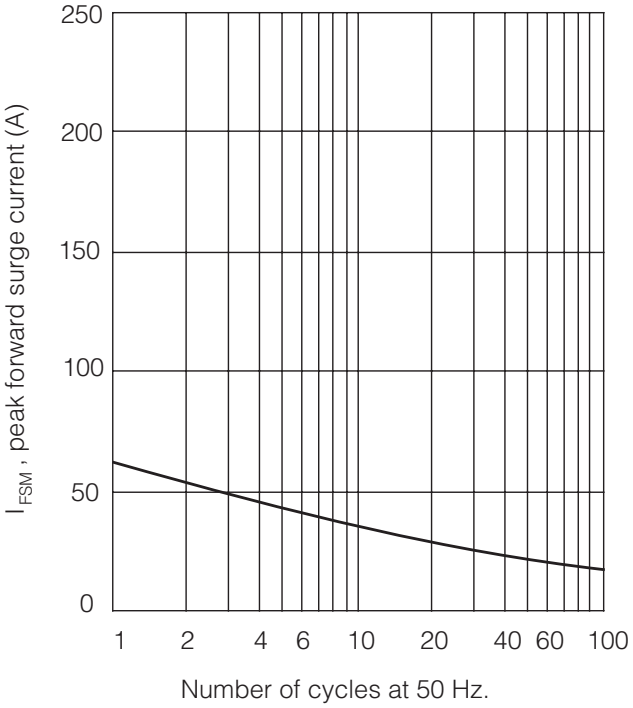
FORWARD CURRENT DERATING CURVE



MAXIMUM FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE