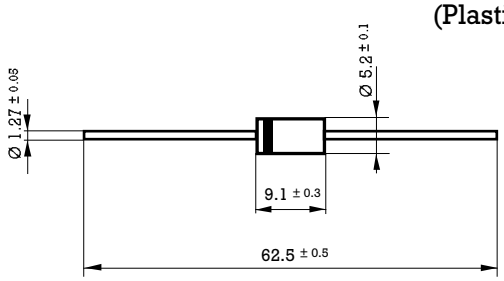
3 Amp. Glass Passivated Ultrafast Recovery Rectifier

Dimensions in mm. DO-201AD (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 200 to 400 V

Current 3 A at 40 °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

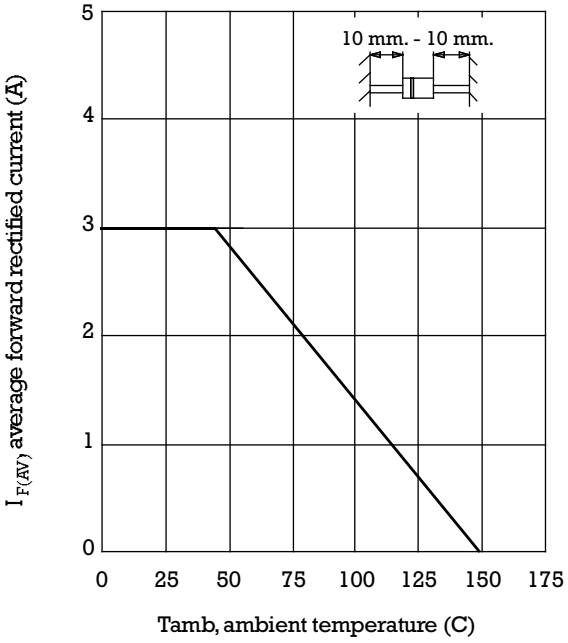
		31DF2	**31DF4**
V_{RRM}	Peak Recurrent reverse voltage	200 V	400 V
$I_{F(AV)}$	Forward current at Tamb = 40 °C	3 A	
I_{FRM}	Recurrent peak forward current	15 A	
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	90 A	
t_{rr}	Reverse recovery time from I_F = 0.5 A ; I_R = 1 A ; I_{RR} = 0.25 A	30 ns	
T_j	Operating temperature range	– 65 to + 150 °C	
T_{stg}	Storage temperature range	– 65 to + 150 °C	

Electrical Characteristics at Tamb = 25 °C

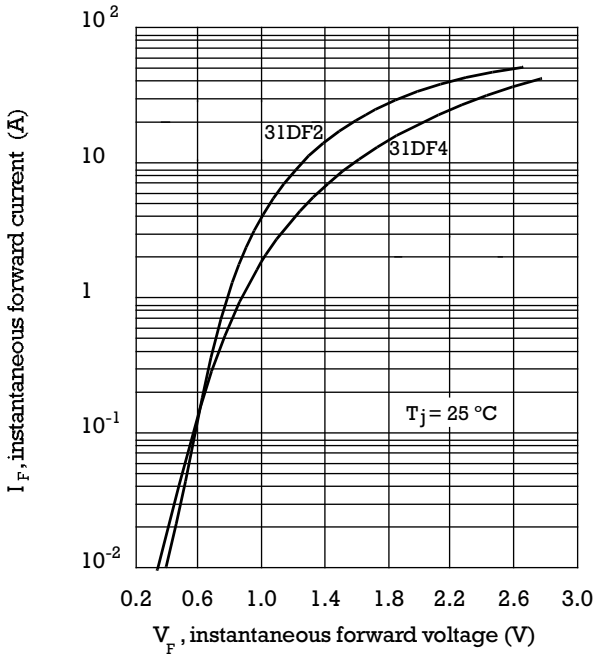
V_F	Max. forward voltage drop at I_F = 3 A	0.98 V	1.25 V
I_R	Max. reverse current at V_{RRM} at 25 °C	10 µA	
R_{thj-a}	Max. thermal resistance (l = 10 mm.)	30 °C/W	

Rating And Characteristic Curves

FORWARD CURRENT DERATING CURVE



TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT