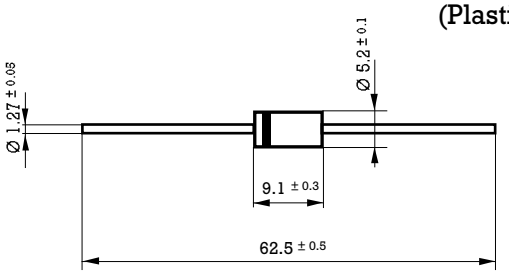
3 Amp. Glass Passivated Junction Rectifier

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 50 to 1000 V. Current 3.0 A. at 105°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

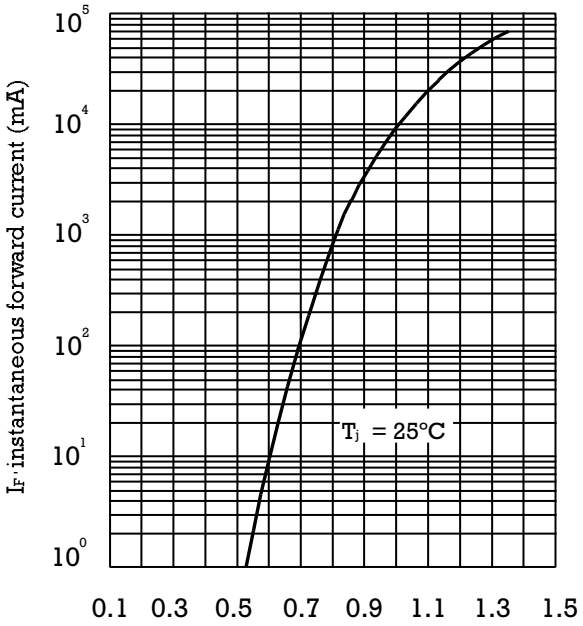
		1N 5400GP	1N 5401GP	1N 5402GP	1N 5404GP	1N 5406GP	1N 5407GP	1N 5408GP
V_{RRM}	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward current at Tamb = 105 °C	3 A						
I_{FRM}	Recurrent peak forward current	30 A						
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	200 A						
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	1.2 V
I_R	Max. reverse current at V_{RRM} at 25°C at 150°C	10 µ A 500 µ A
R_{thj-a}	Max. thermal resistance (I = 10 mm.)	30° C/W

Characteristic Curves

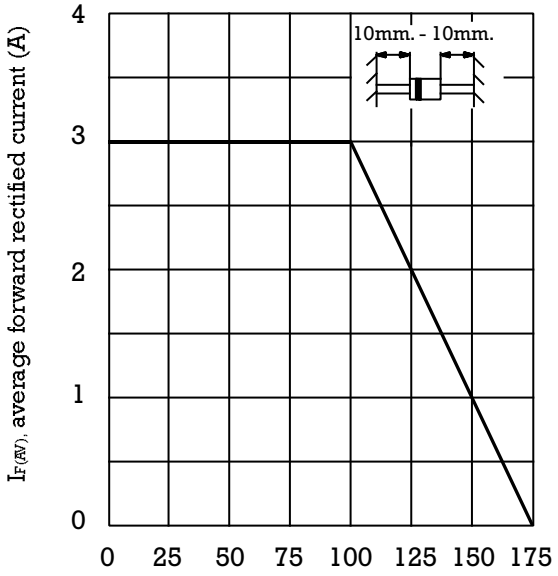
TYPICAL FORWARD CHARACTERISTIC



I_F, instantaneous forward current (mA)

V_F, instantaneous forward voltage (V)

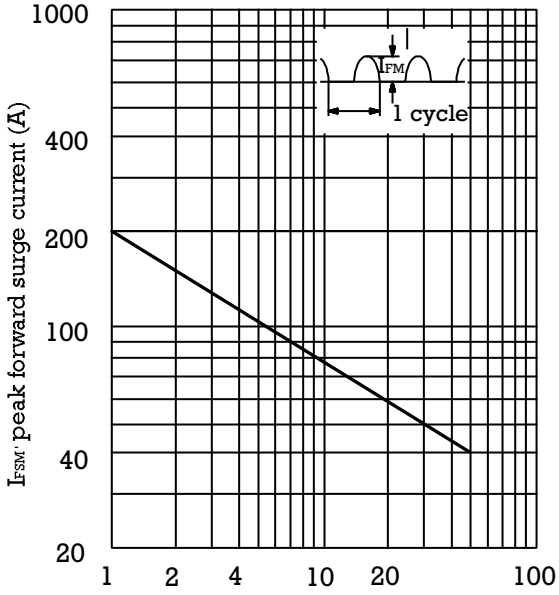
FORWARD CURRENT DERATING CURVE



$I_{F(AV)}$, average forward rectified current (A)

Tamb, ambient temperature (°C)

MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT



I_{FSM}, peak forward surge current (A)

Number of cycles at 60Hz.