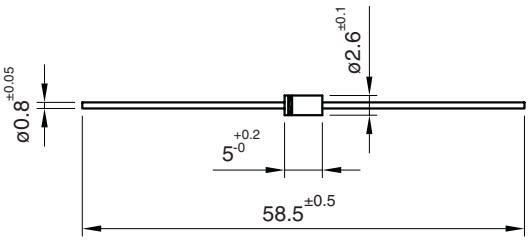
1 Amp. Glass Passivated Fast Recovery Rectifier

Dimensions in mm. **DO-41 (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 2 mm. to the body.

Voltage 400 to 1000 V

Current 1.0 A at 50 °C

HYPERECTIFIER®

- **Glass passivated junction**
- High current capability
- The plastic material carries U/L recognition 94 V-0
- Teminals: Axial Leads
- Polarity: Color band denotes cathode

Maximum Ratings, according to IEC publication No. 134

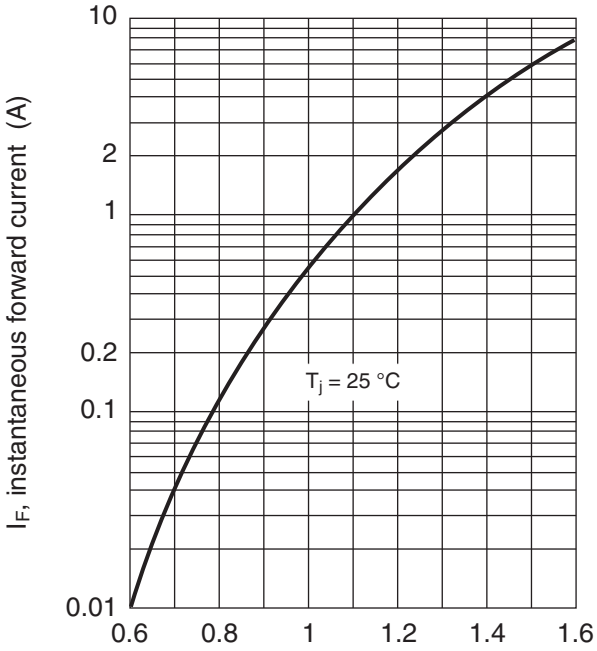
		BA157GP	BA158GP	BA159GP
V_{RRM}	Peak Recurrent and non Reverse Voltage (V)	400	600	1000
$I_{F(AV)}$	Forward Current at Tamb = 50 °C	1 A		
I_{FRM}	Recurrent Peak Forward Current	9 A		
I_{FSM}	10 ms. Peak Forward Surge Current (Jedec Method)	35 A		
t_{rr}	Maximum reverse recovery time from I_F = 0.5 A; I_R = 1 A; I_{RR} = 0.25 A	150 ns	250 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 = 0.5 A; T_j = 25 °C	20 mJ		

Electrical Characteristics at Tamb = 25°C

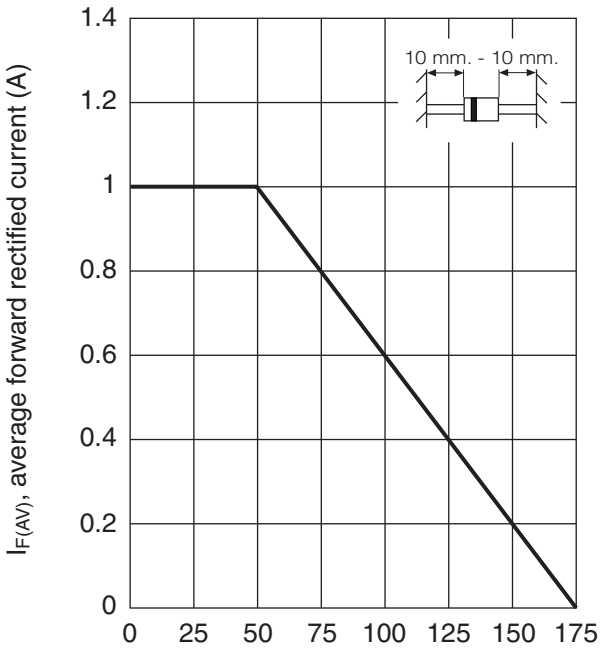
V_F	Maximum Forward Voltage Drop at I_F = 1 A		1.3 V
I_R	Reverse Current at V_{RRM}	at 25 °C at 125 °C	5 µA 100 µA
$R_{th(j-a)}$	Thermal Resistance (l = 10mm.)	Max. Typ.	60 °C/W 45 °C/W

Rating And Characteristic Curves

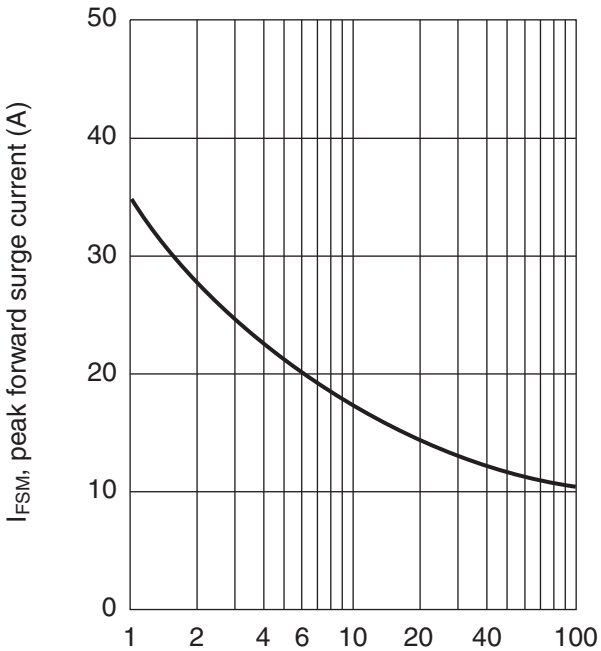
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE