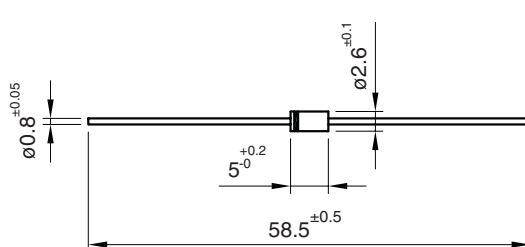



1 Amp. Glass Passivated Fast Recovery Rectifier

<p>Dimensions in mm.</p> <p style="text-align: right;">DO-41 (Plastic)</p>  <p>Mounting instructions</p> <ol style="list-style-type: none"> 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. 	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%;">Voltage 400 to 1000 V</td> <td style="text-align: center; width: 50%;">Current 1.0 A at 50 °C</td> </tr> </table> <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> • Glass passivated junction • High current capability • The plastic material carries U/L recognition 94 V-0 • Terminals: Axial Leads • Polarity: Color band denotes cathode 	Voltage 400 to 1000 V	Current 1.0 A at 50 °C
Voltage 400 to 1000 V	Current 1.0 A at 50 °C		

Maximum Ratings, according to IEC publication No. 134

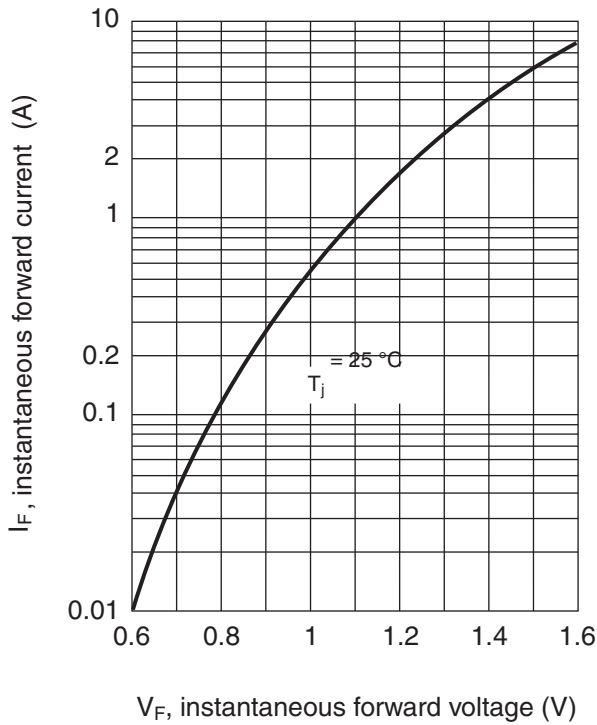
		BA157GP	BA158GP	BA159GP
V_{RRM}	Peak Recurrent and non Reverse Voltage (V)	400	600	1000
$I_{F(AV)}$	Forward Current at $T_{amb} = 50\text{ °C}$	1 A		
I_{FRM}	Recurrent Peak Forward Current	9 A		
I_{FSM}	10 ms. Peak Forward Surge Current (Jedec Method)	35 A		
t_{rr}	Maximum reverse recovery time from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

Electrical Characteristics at $T_{amb} = 25\text{ °C}$

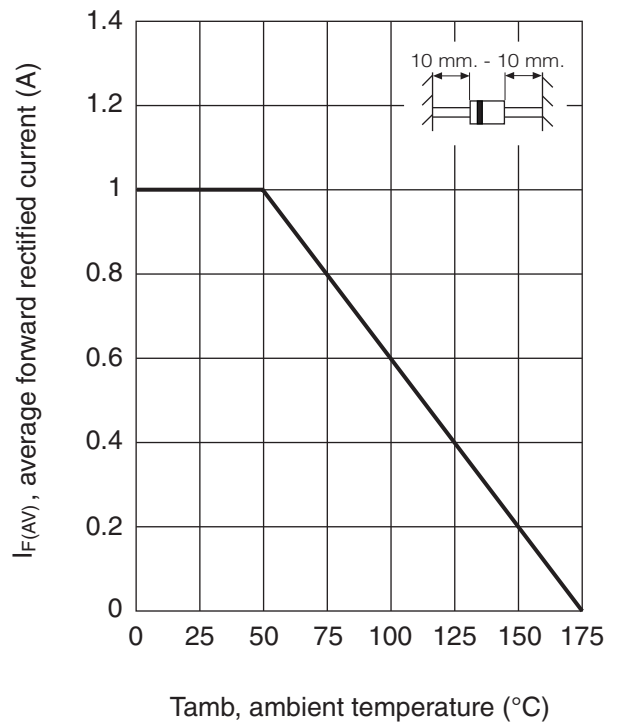
V_F	Maximum Forward Voltage Drop at $I_F = 1\text{ A}$	1.3 V
I_R	Reverse Current at V_{RRM}	5 μA 100 μA
$R_{th(j-a)}$	Thermal Resistance ($l = 10\text{mm.}$)	Max. 60 °C/W Typ. 45 °C/W

Rating And Characteristic Curves

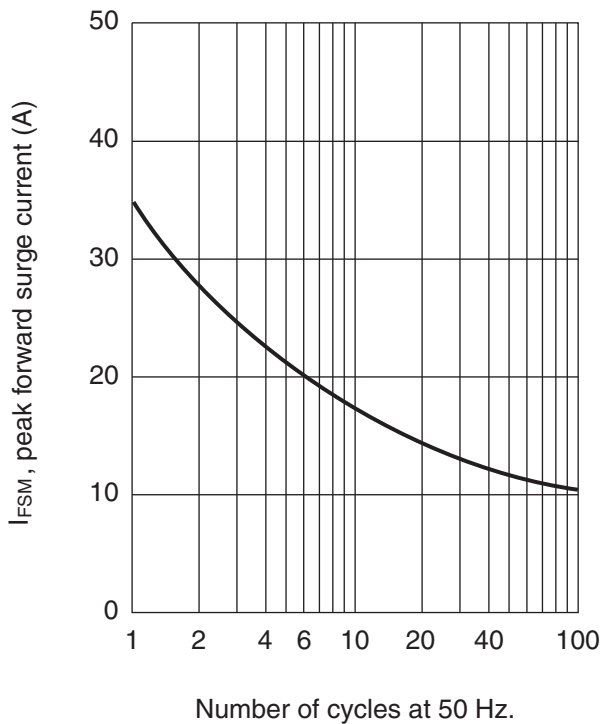
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

