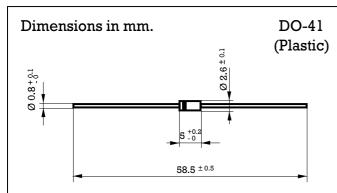
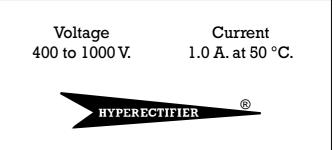


1 Amp. Glass Passivated Fast Recovery Rectifier



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.



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

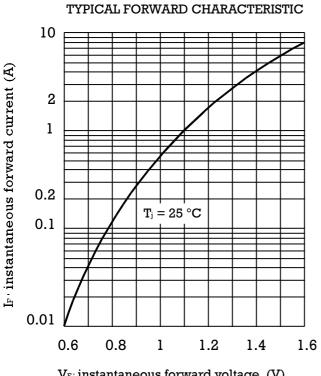
Maximum Ratings, according to IEC publication No. 134

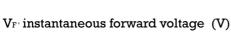
		BA157GP	BA158GP	BA159GP
V_{RRM}	Peak recurrent and non recurrent reverse voltage (V)	400	600	1000
I _{F(AV)}	Forward current at Tamb = 50 °C		1 A	
I_{FRM}	Recurrent peak forward current		9 A	
I_{FSM}	10 ms. peak forward surge current	35 A		
t _{rr}	$\begin{array}{ll} \text{Max. reverse recovery} & & \text{I}_{\text{F}} = 0.5 \text{ A} \\ \text{Ime from} & & \text{I}_{\text{R}} = 1 \text{ A} \\ \text{I}_{\text{RR}} = 0.25 \text{ A} \end{array}$	150 ns	250 ns	500 ns
T_{j}	Operating temperature range	-65 to +175 °C		
$T_{ m stg}$	Storage temperature range	− 65 to + 175 °C		
E _{RSM}	Maximum non repetitive peak reverse avalanche energy. $I_R = 0.5 \text{ A} \; ; \; T_J = 25 ^{\circ}\text{C}$	20 mJ		

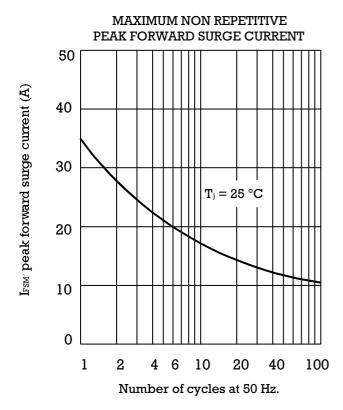
Electrical Characteristics at Tamb = 25 °C

V _F	Forward voltage drop at $I_F = 1 \text{ A}$	1.3 V
I_R	Reverse current at V_{RRM} at 25 °C at 125 °C	
R _{thj-a}	Thermal resistance (I = 10 mm.) Max. Typ.	60 °C/W 45 °C/W

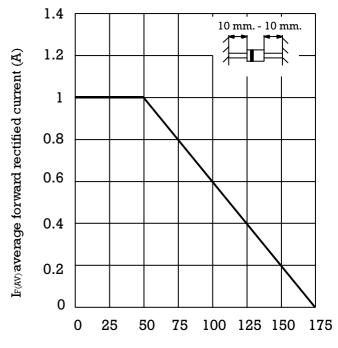
Rating And Characteristic Curves







FORWARD CURRENT DERATING CURVE



Tamb, ambient temperature (°C)

