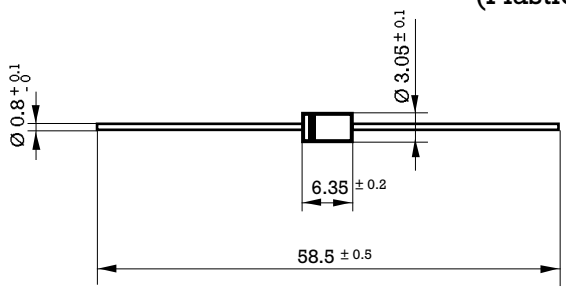
1 Amp. Glass Passivated Junction Rectifier

Dimensions in mm. DO-15 (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 50 to 1000 V.

Current 1.0 A. at 70 °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

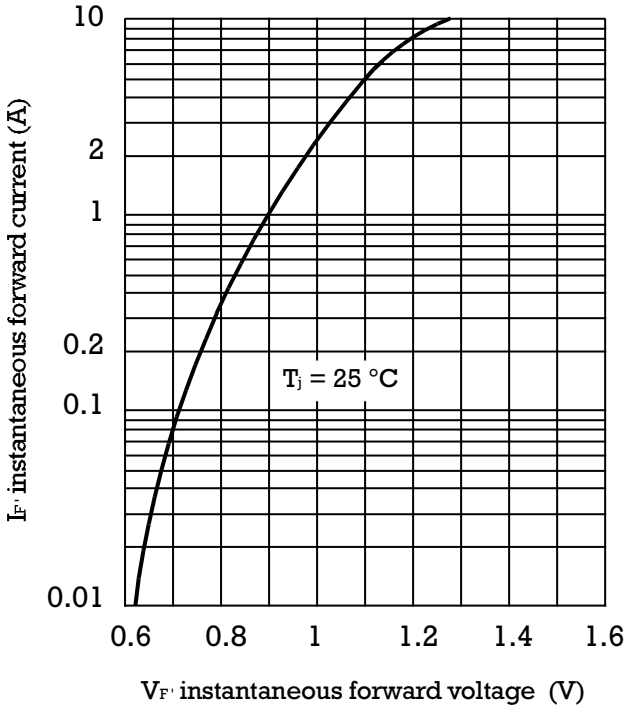
		BYW27 50	BYW27 100	BYW27 200	BYW27 400	BYW27 600	BYW27 800	BYW27 1000
V_{RRM}	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward current at Tamb = 70 °C	1 A						
I_{FRM}	Recurrent peak forward current	10 A						
I_{FSM}	10 ms. peak forward surge current	50 A						
T_j	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 = 0.5 A ; T_J = 25 °C	20 mJ						

Electrical Characteristics at Tamb = 25 °C

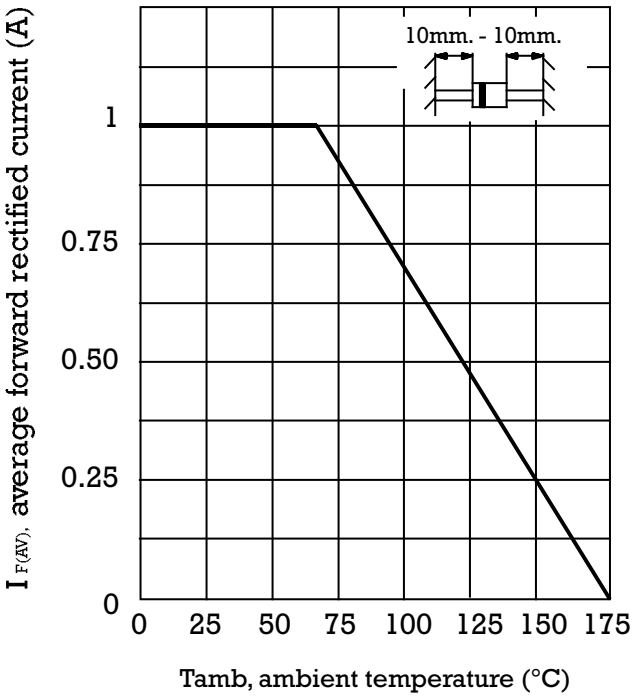
V_F	Max. forward voltage drop at I_F = 1 A	1 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 100 °C	200 nA 15 µ A
R_{thj-a}	Max. thermal resistance (l = 10 mm.)	60 °C/W

Rating and Characteristic Curves

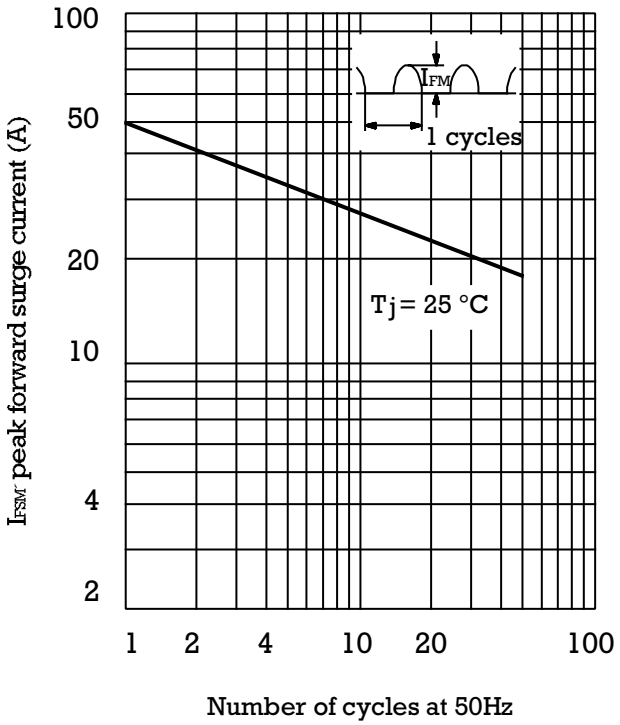
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE