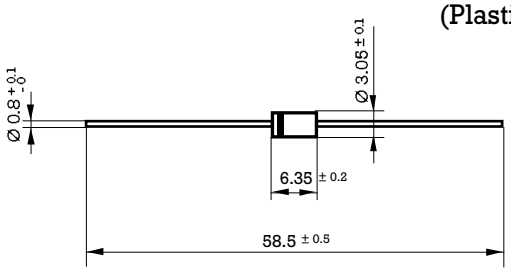
1.5 Amp. Glass Passivated Fast Diode

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 2000 V

Current 1.5 A at 55 °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

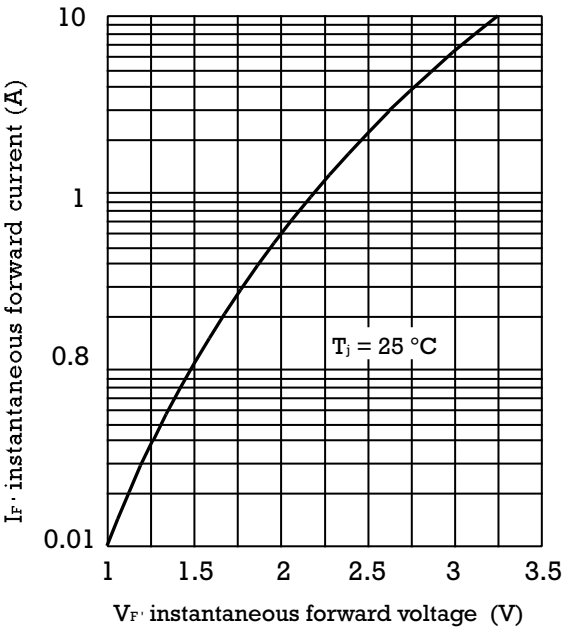
		RGP15-20
V_{RRM}	Peak recurrent reverse voltage	2000 V
$I_{F(AV)}$	Forward current at Tamb = 55 °C	1.5 A
I_{FRM}	Recurrent peak forward current	6 A
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	20 A
t_{rr}	Max. reverse recovery time from I_F = 0.5 A, I_R = 1 A, I_{RR} = 0.25 A	300 ns
C_j	Typical Junction Capacitance at 1 MHz and reverse voltage of $4V_{DC}$	5 pF
T_j	Operating temperature range	– 65 to + 175 °C
T_{stg}	Storage temperature range	– 65 to + 175 °C

Electrical Characteristics at Tamb = 25 °C

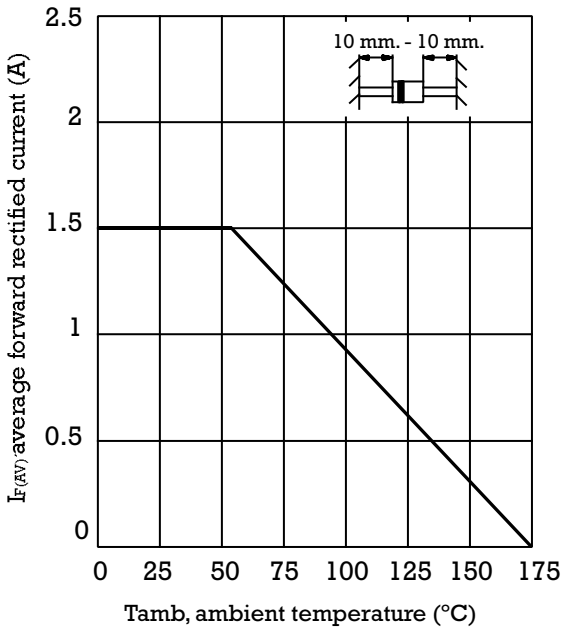
V_F	Max. forward voltage drop at I_F = 1.5 A	3 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 150 °C	5 µ A 50 µ A
R_{thj-a}	Max. thermal resistance (l = 10 mm.)	30 °C/W

Rating And Characteristic Curves

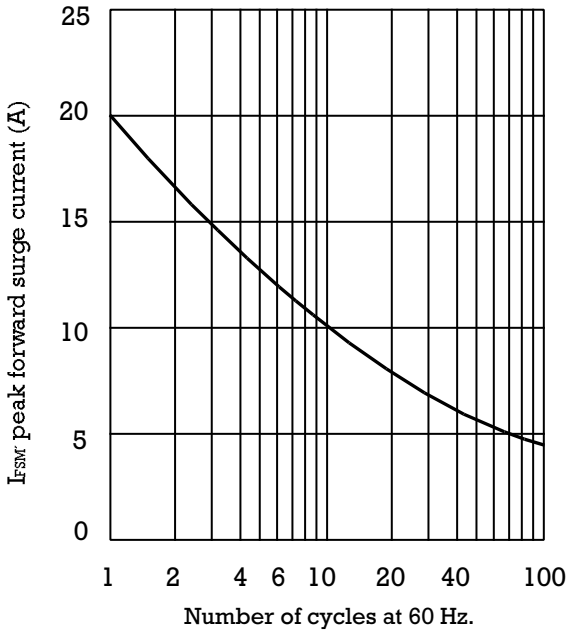
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE