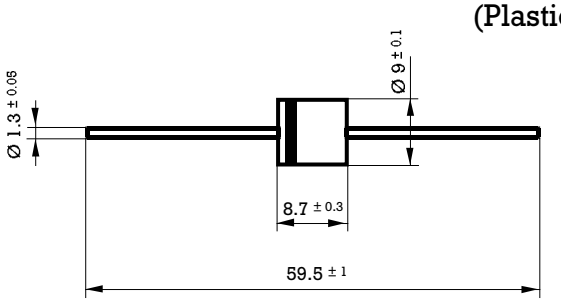
5 Amp. Glass Passivated Fast Recovery Rectifier

Dimensions in mm. P-6 (Plastic)



Voltage 50 to 1000 V.

Current 5.0 A. at 55 °C.

HYPERECTIFIER®

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 4 mm. to the body.

- **Glass passivated junction**
- High surge 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

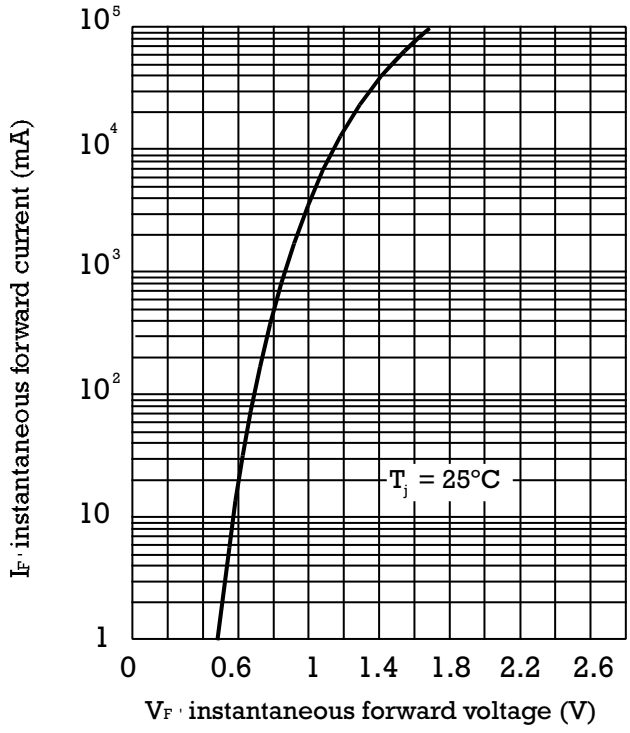
		RGP 50A	RGP 50B	RGP 50D	RGP 50G	RGP 50J	RGP 50K	RGP 50M
V_{RRM}	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward current at Tamb = 55 °C	5 A						
I_{FRM}	Recurrent peak forward current	60 A						
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	300 A						
t_{rr}	Max. 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 = 1A ; T_J = 25 °C	20 mJ						

Electrical Characteristics at Tamb = 25 °C

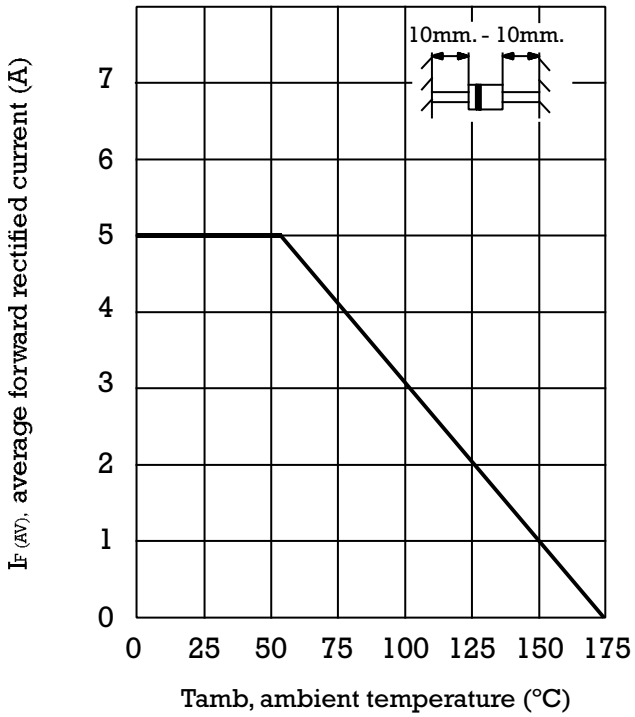
V_F	Max. forward voltage drop at I_F = 5 A	1.3 V
I_R	Max. reverse current at V_{RRM} at 25 °C	5 µ A
R_{thj-a}	Max. thermal resistance (l = 10 mm.)	10 °C/W

Rating and Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT