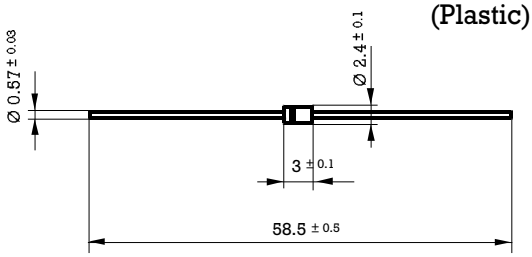
1 Amp. Glass Passivated Fast Recovery Rectifier

Dimensions in mm. DO-41-MINI (Plastic)



Voltage 50 to 1000 V. Current 1.0 A. at 25 °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 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

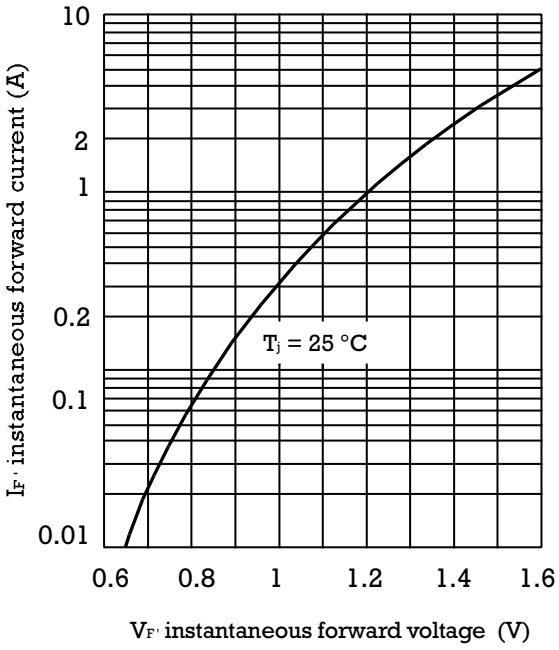
		RGP 08A	RGP 08B	RGP 08D	RGP 08G	RGP 08J	RGP 08K	RGP 08M	RGP 08MT
	Marking Code	K1	K2	K3	K4	K5	K6	K7	K8
V_{RRM}	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000	1000
$I_{F(AV)}$	Forward current at Tamb = 25 °C	1 A							
I_{FRM}	Recurrent peak forward current	10 A							
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	30 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		300 ns
T_j	Operating temperature range	– 65 to + 150 °C							
T_{stg}	Storage temperature range	– 65 to + 150 °C							
E_{RSM}	Maximum non repetitive peak reverse avalanche energy. I_R = 0.5 A ; T_J = 25 °C	15 mJ							

Electrical Characteristics at Tamb = 25 °C

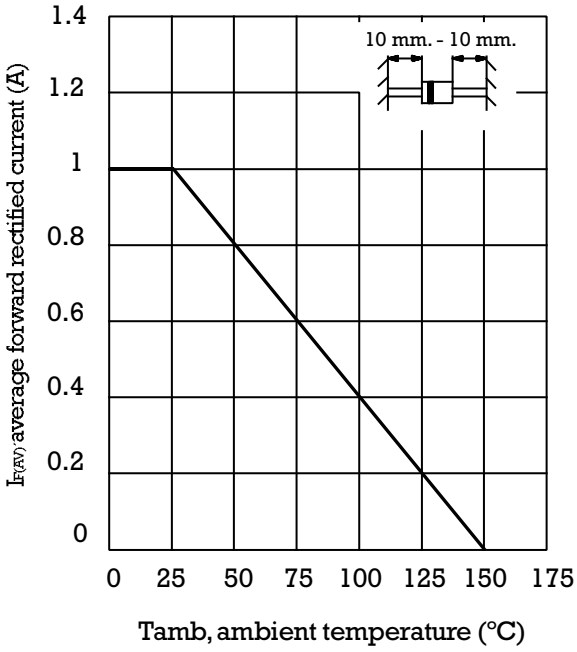
V_F	Max. forward voltage drop at I_F = 1.0 A	1.3 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 150 °C	5 µ A 200 µ A
$R_{thj\text{-}a}$ $R_{thj\text{-}a}$	MAXIMUM THERMAL RESISTANCE Junction-Ambient. With Heatsink Junction-Ambient. In P.C.B.	 45 °C/W 100 °C/W

Rating And Characteristic Curves

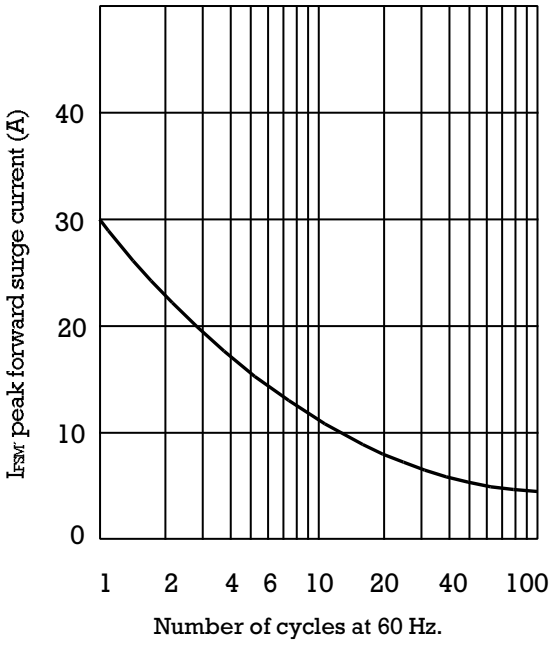
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE