

0.5 Amp. Glass Passivated Fast Recovery Rectifier

<p>Dimensions in mm.</p> <p>DO-41 (Plastic)</p>	<p>Voltage 1200 to 2000 V</p> <p>Current 0.5 A. at 55 °C.</p>
<p>Mounting instructions</p> <ol style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> • 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

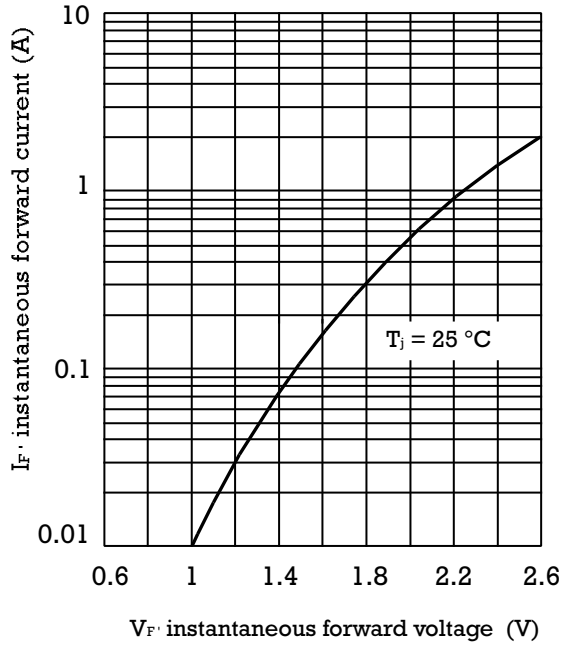
		RGP02 -12	RGP02 -14	RGP02 -16	RGP02 -18	RGP02 -20
V_{RRM}	Peak recurrent reverse voltage (V)	1200	1400	1600	1800	2000
$I_{F(AV)}$	Forward current at $T_{amb} = 55\text{ °C}$	0.5 A				
I_{FRM}	Recurrent peak forward current	7 A				
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	20 A				
t_{rr}	Max. reverse recovery time from $I_F = 0.5\text{ A}$ $I_R = 1\text{ A}$ $I_{RR} = 0.25\text{ A}$	300 ns				
T_j	Operating temperature range	- 65 to + 175 °C				
T_{stg}	Storage temperature range	- 65 to + 175 °C				

Electrical Characteristics at $T_{amb} = 25\text{ °C}$

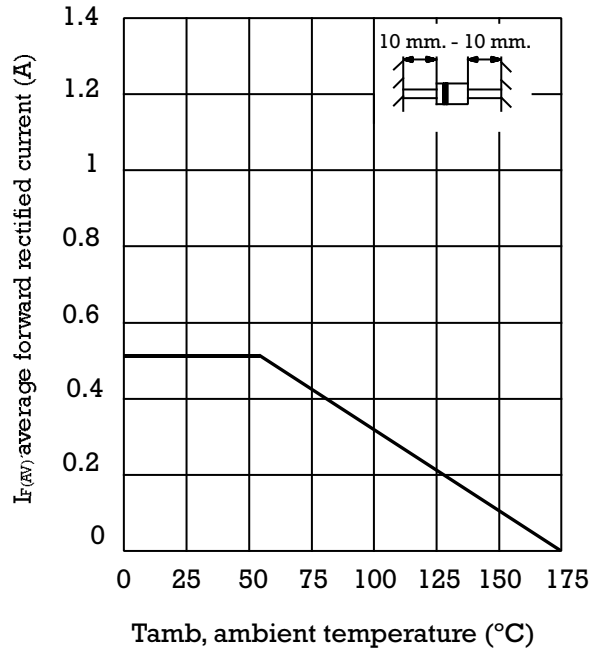
V_F	Max. forward voltage drop at $I_F = 0.5\text{ A}$ $I_F = 0.1\text{ A}$	2.2 V 1.8 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 150 °C	5 $\mu\text{ A}$ 200 $\mu\text{ A}$
R_{thj-a}	Thermal resistance (l = 10 mm.) Max. Typ.	60 °C/W 45 °C/W

Rating And Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT

