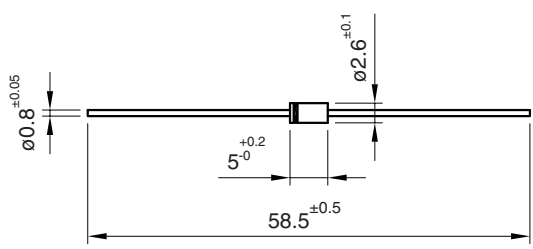



0.5 Amp. Glass Passivated Fast Recovery Rectifier

<p>Dimensions in mm.</p> <p style="text-align: right;">DO-41 (Plastic)</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. 	<p style="text-align: center;">Voltage 1200 to 2000 V</p> <p style="text-align: center;">Current 0.5 A at 55 °C</p> <div style="text-align: center; margin: 20px 0;">  </div> <ul style="list-style-type: none"> • Glass passivated junction • High current • The plastic material carries U/L recognition 94 V-0 • Terminals: Axial Leads • Polarity: Color band denotes cathode
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Maximum Ratings, according to IEC publication No. 134

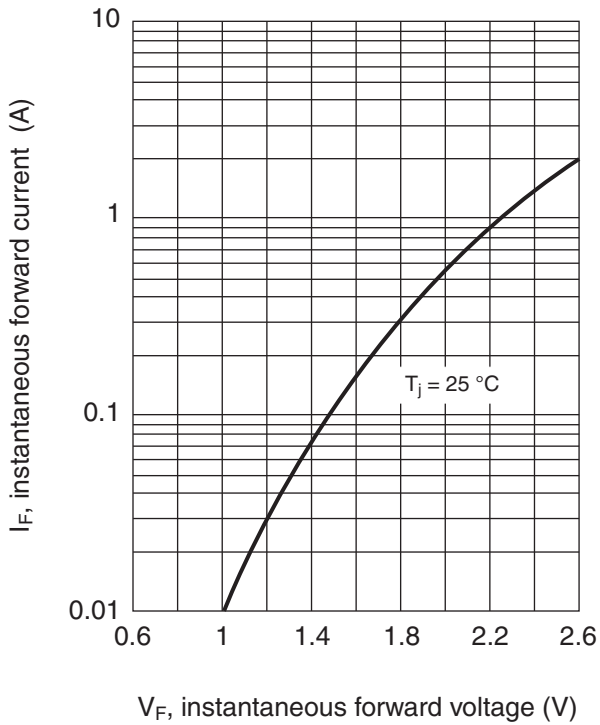
		RGP02 -12	RGP02 -14	RGP02 -16	RGP02 -18	RGP02 -20
V_{RRM}	Peak Recurrent Reverse Voltage (V)	1200	1400	1600	1800	2000
$I_{F(AV)}$	Forward Current at $T_{amb} = 55\text{ °C}$	0.5 A				
I_{FRM}	Recurrent Peak Forward Current	7 A				
I_{FSM}	8.3 ms. Peak Forward Surge Current (Jedec Method)	20 A				
t_{rr}	Maximum 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 $T_{amb} = 25\text{ °C}$

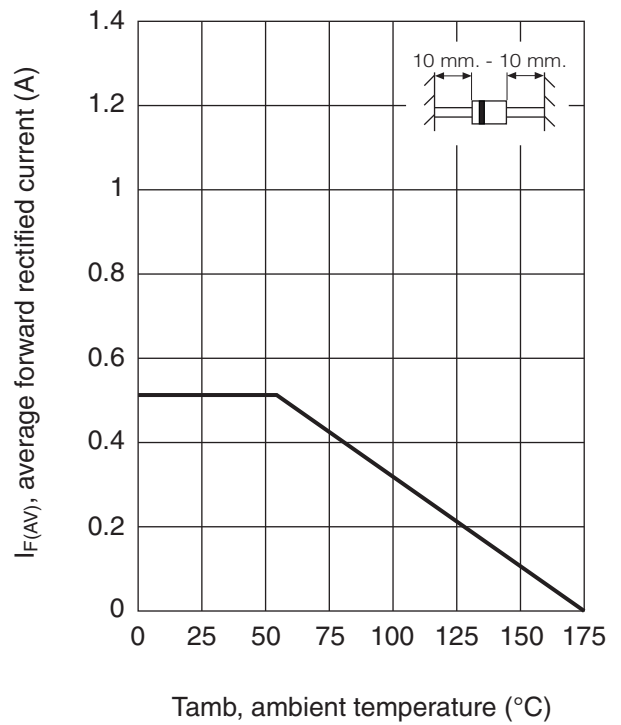
V_F	Maximum Forward Voltage Drop at $I_F = 0.5\text{ A}$ $I_F = 1\text{ A}$	2.2 V
		1.8 V
I_R	Maximun Reverse Current at V_{RRM} at 25 °C at 150 °C	5 μA
		200 μA
$R_{th(j-a)}$	Thermal Resistance ($l = 10\text{mm.}$) Max. Typ.	60 °C/W
		45 °C/W

Rating And Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT

