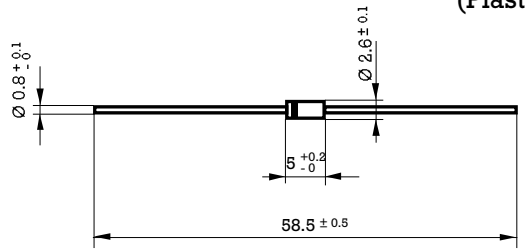



## 0.5 Amp. Glass Passivated Fast Recovery Rectifier

<p><b>Dimensions in mm.</b></p>  <p><b>DO-41 (Plastic)</b></p> <p><b>Mounting instructions</b></p> <ol style="list-style-type: none"> <li>1. Min. distance from body to soldering point, 4 mm.</li> <li>2. Max. solder temperature, 350 °C.</li> <li>3. Max. soldering time, 3.5 sec.</li> <li>4. Do not bend lead at a point closer than 2 mm. to the body.</li> </ol>	<p><b>Voltage</b> 1200 to 2000 V</p> <p><b>Current</b> 0.5 A. at 55 °C.</p> 
	<ul style="list-style-type: none"> <li>• Glass passivated junction</li> <li>• High current capability</li> <li>• The plastic material carries U/L recognition 94 V-0</li> <li>• Terminals: Axial Leads</li> <li>• Polarity: Color band denotes cathode</li> </ul>

### Maximum Ratings, according to IEC publication No. 134

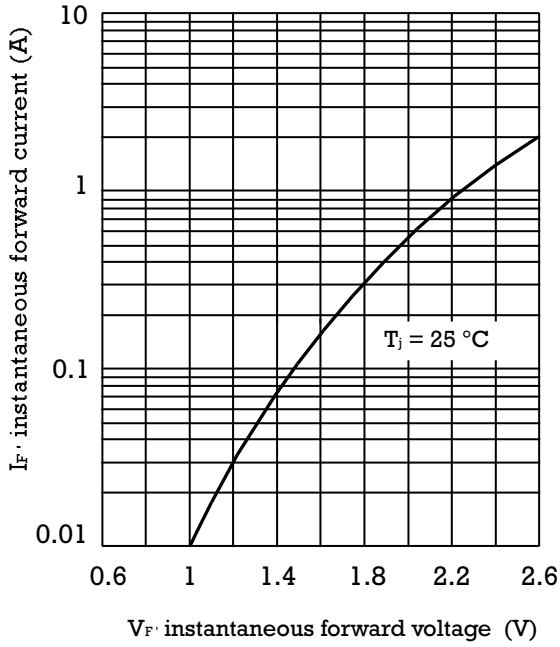
		<b>RGP02 -12</b>	<b>RGP02 -14</b>	<b>RGP02 -16</b>	<b>RGP02 -18</b>	<b>RGP02 -20</b>
$V_{RRM}$	Peak recurrent reverse voltage (V)	1200	1400	1600	1800	2000
$I_{F(AV)}$	Forward current at $T_{amb} = 55\text{ °C}$	0.5 A				
$I_{FRM}$	Recurrent peak forward current	7 A				
$I_{FSM}$	8.3 ms. peak forward 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 $T_{amb} = 25\text{ °C}$

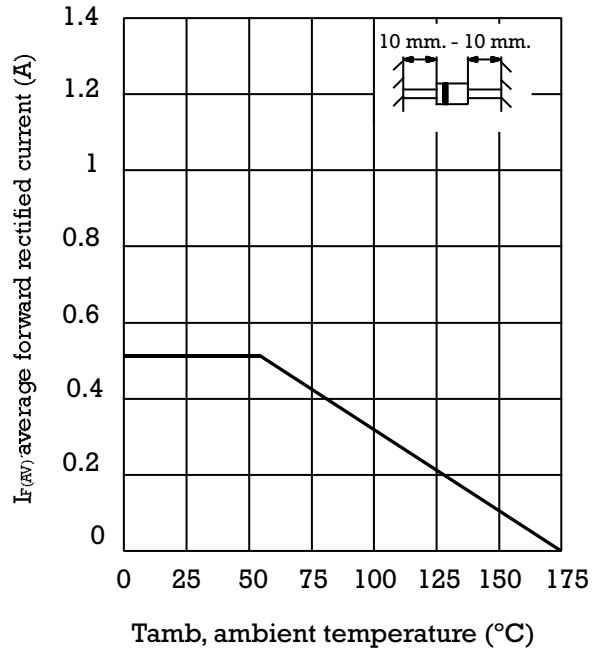
$V_F$	Max. forward voltage drop at $I_F = 0.5\text{ A}$ $I_F = 0.1\text{ A}$	2.2 V 1.8 V
$I_R$	Max. reverse current at $V_{RRM}$ at 25 °C at 150 °C	5 $\mu\text{ A}$ 200 $\mu\text{ A}$
$R_{thj-a}$	Thermal resistance (l = 10 mm.) Max. Typ.	60 °C/W 45 °C/W

**Rating And Characteristic Curves**

TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT

