

2 Amp. Glass Passivated Junction Rectifier

<p>Dimensions in mm.</p> <p>DO-15 (Plastic)</p>	<p>Voltage 1000 V</p> <p>Current 2 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

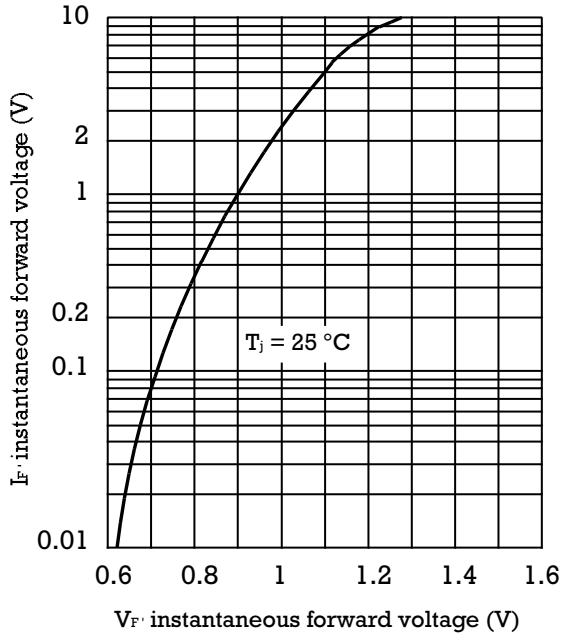
		GP20D	GP20J	GP20M
V_{RRM}	Peak recurrent reverse voltage	200 V	600 V	1000 V
$I_{F(AV)}$	Forward current at $T_{amb} = 55\text{ °C}$	2 A		
I_{FRM}	Recurrent peak forward current	20 A		
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	80 A		
T_j	Operating temperature range	- 65 to + 175 °C		
T_{stg}	Storage temperature range	- 65 to + 175 °C		
E_{RSM}	Maximum non repetitive peak reverse avalanche energy. $I_R = 1\text{ A}$; $T_j = 25\text{ °C}$	20 mJ		

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

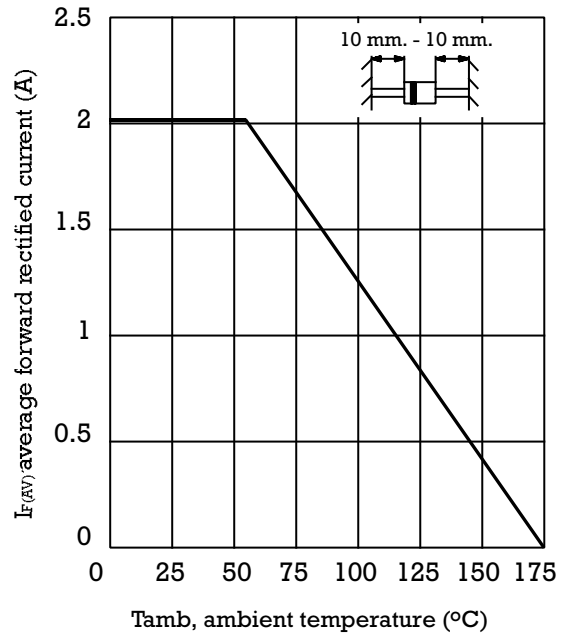
V_F	Max. forward voltage drop at $I_F = 2\text{ A}$	1.1 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 150 °C	5 $\mu\text{ A}$ 200 $\mu\text{ A}$
R_{thj-a}	Thermal resistance ($l = 10\text{ mm.}$) Max. Typ.	50 °C/W 30 °C/W

Rating And Characteristic Curves

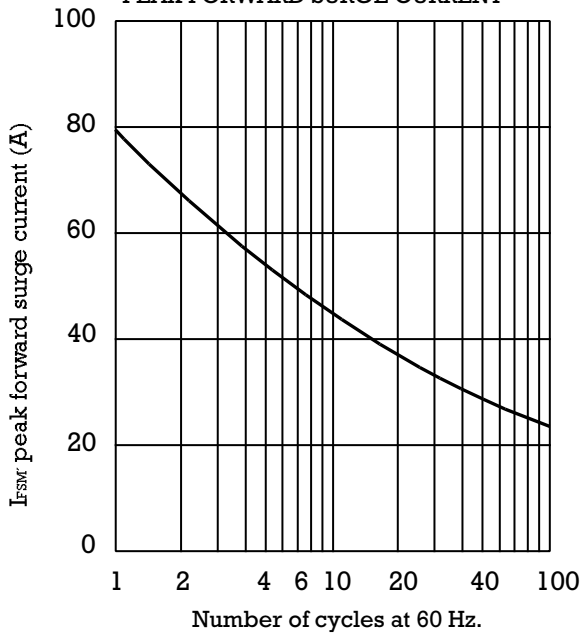
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

