

1 Amp. Glass Passivated Junction 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>Voltage 200V to 1200V</p> <p>Current 1.0 A. at 55 °C.</p>
	<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

		GP10DI	GP10JI	GP10MI	GP10QI
V_{RRM}	Peak recurrent reverse voltage	200 V	600 V	1000 V	1200 V
$I_{F(AV)}$	Forward current at $T_{amb} = 55\text{ °C}$	1.0 A			
I_{FRM}	Recurrent peak forward current	10 A			
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	50 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. $I_R = 0.5\text{ A}$; $T_j = 25\text{ °C}$	20 mJ			

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

V_F	Max. forward voltage drop at $I_F = 1\text{ A}$	1.0 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 125 °C	5 $\mu\text{ A}$ 50 $\mu\text{ A}$
R_{thj-a}	Thermal resistance (l = 10 mm.) Max. Typ.	60 °C/W 45 °C/W

Rating And Characteristic Curves

