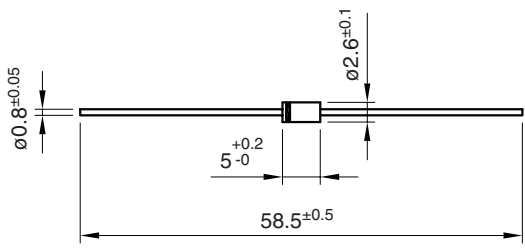


1 Amp. Glass Passivated Fast Recovery Rectifier

<p>Dimensions in mm.</p> <p>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 50 to 1000 V</p> <p>Current 1.0 A at 55 °C</p> <p>HYPERECTIFIER®</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
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Maximum Ratings, according to IEC publication No. 134

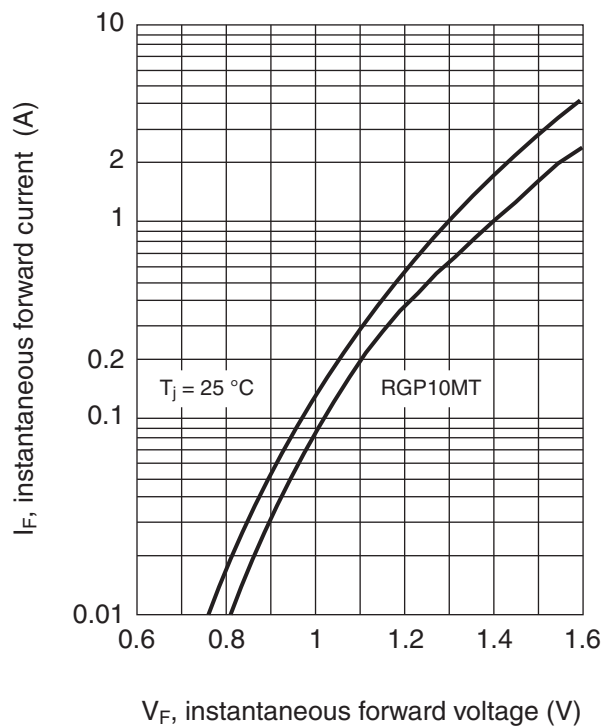
		RGP 10A	RGP 10B	RGP 10D	RGP 10G	RGP 10J	RGP 10K	RGP 10M	RGP 10MT
V _{RRM}	Peak Recurrent Reverse Voltage (V)	50	100	200	400	600	800	1000	1000
I _{F(AV)}	Forward Current at Tamb = 55 °C	1.0 A							
I _{FRM}	Recurrent Peak Forward Current	10 A							
I _{FSM}	8.3 ms. Peak Forward Surge Current (Jedec Method)	30 A							
t _{rr}	Maximum reverse recovery time from I _F = 0.5 A; I _R = 1 A; I _{RR} = 0.25 A	150 ns				250 ns	500 ns	300 ns	
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 A; T _j = 25 °C	20 mJ							

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

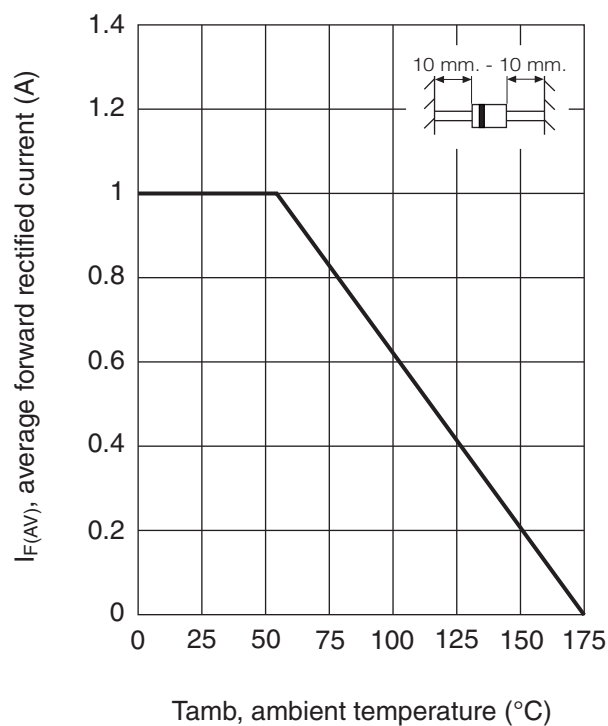
V_F	Maximum Forward Voltage Drop at $I_F = 1\text{ A}$	1.3 V
I_R	Maximun Reverse Current at V_{RRM} at 25 °C at 125 °C	5 µA 200 µA
$R_{th(j-a)}$	Thermal Resistance ($l = 10\text{mm.}$) Max. Typ.	60 °C/W 45 °C/W

Rating And Characteristic Curves

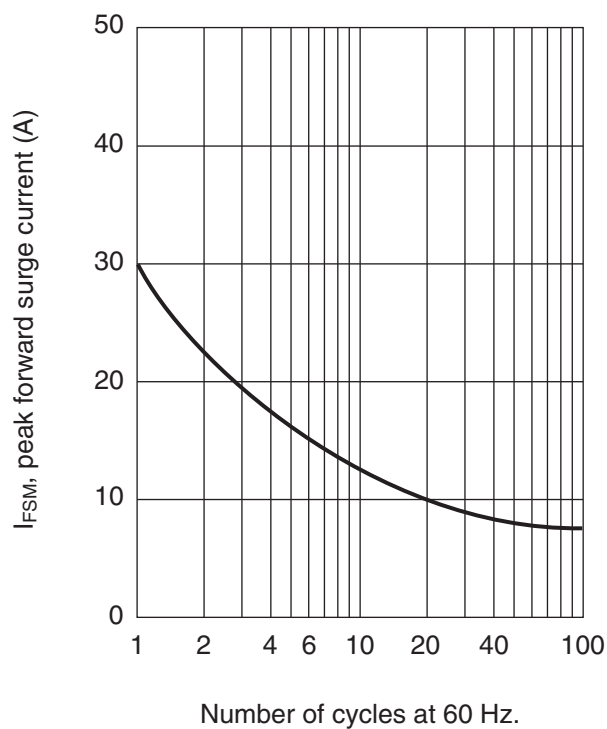
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

