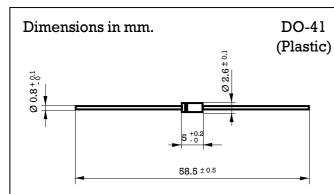


1 Amp. Glass Passivated Fast Recovery Rectifier



Voltage Current 50 to 1000 V. 1.0 A. at 55 °C.



Mounting instructions

- 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.

• 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

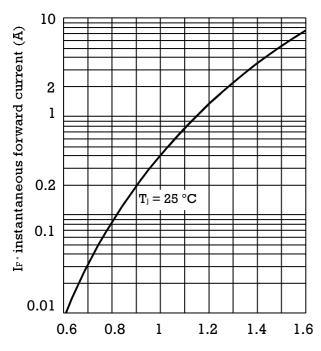
		RGP 10A	RGP 10B	RGP 10D	RGP 10G	RGP 10J	RGP 10K	RGP 10M	RGP 10MT
V_{RRM}	Peak recurrent reverse voltage (V)	50	100	200	400	600	800	1000	1000
I _{F(AV)}	Forward current at Tamb = 55 °C	1 A							
I_{FRM}	Recurrent peak forward current	10 A							
I _{FSM}	8.3 ms. peak forward surge current	30 A							
t _{rr}	$\begin{array}{ll} \text{Max. reverse recovery} & I_{_{\!F}} = 0.5 \text{ A} \\ I_{_{\!R\!R}} = 1 \text{ A} \\ I_{_{\!R\!R}} = 0.25 \text{ A} \end{array}$	150 ns 250 ns 500 ns 300				300 ns			
T_{j}	Operating temperature range	− 65 to + 175 °C							
$T_{ m stg}$	Storage temperature range		− 65 to + 175 °C						
$E_{ ext{RSM}}$	Maximum non repetitive peak reverse avalanche energy. $I_R = 0.5 \text{A} \; ; \; T_J = 25 ^{\circ}\text{C}$	20 mJ							

Electrical Characteristics at Tamb = 25 °C

V _F	Max. forward voltage drop at $I_F = 1 \text{ A}$	1.3 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 150 °C	5 μ A 200 μ A
R _{thj-a}	Thermal resistance (I = 10 mm.) $\frac{Max}{Typ}$	

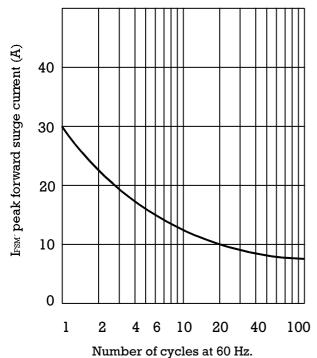
Rating And Characteristic Curves

TYPICAL FORWARD CHARACTERISTIC

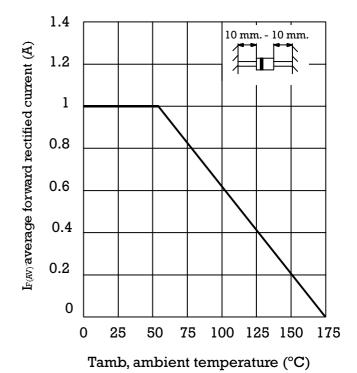


 $V_{F'}$ instantaneous forward voltage (V)

MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



FORWARD CURRENT DERATING CURVE



TYPICAL JUNCTION CAPACITANCE

