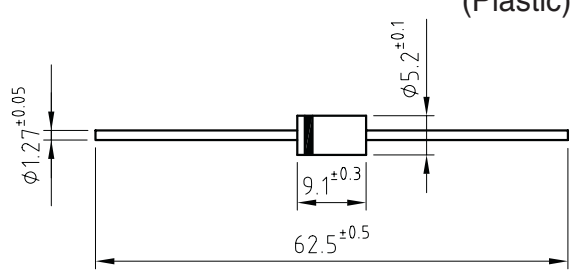



5 Amp. Glass Passivated Avalanche Ultrafast Recovery Rectifier

<p>Dimensions in mm.</p> <p style="text-align: right;">DO-201AD (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. 	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%;">Voltage 50 to 400 V</td> <td style="text-align: center; width: 50%;">Current 5 A at 55 °C</td> </tr> </table> <div style="text-align: center; margin: 10px 0;">  </div> <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 	Voltage 50 to 400 V	Current 5 A at 55 °C
Voltage 50 to 400 V	Current 5 A at 55 °C		

Maximum Ratings, according to IEC publication No. 134

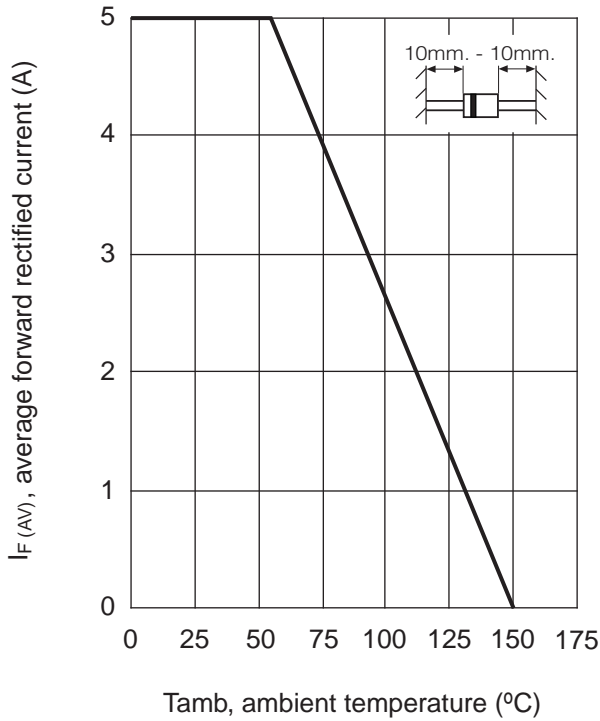
		EGP 50A	EGP 50B	EGP 50D	EGP 50F	EGP 50G	EGP 50J	EGP 50K	EGP 50M	
V_{RRM}	Peak recurrent reverse voltage (V)	50	100	200	300	400	600	800	1000	
V_{RMS}	Maximum RMS voltage	35	70	140	210	280	420	560	700	
V_{DC}	Maximum DC blocking voltage	50	100	200	300	400	600	800	1000	
$I_{F(AV)}$	Forward current at $T_{amb} = 55\text{ °C}$	5 A								
I_{FRM}	Recurrent peak forward current	50 A								
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	150 A								
t_{rr}	Max. reverse recovery time from $I_F = 0.5\text{ A}$; $I_R = 1\text{ A}$; $I_{RR} = 0.25\text{ A}$	50 ns					75 ns			
C_j	Typical Junction Capacitance at 1 MHz and reverse voltage of $4V_{DC}$	100 pF					65 pF			
T_j	Operating temperature range	- 65 to + 150 °C								
T_{stg}	Storage temperature range	- 65 to + 150 °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 $T_{amb} = 25\text{ °C}$

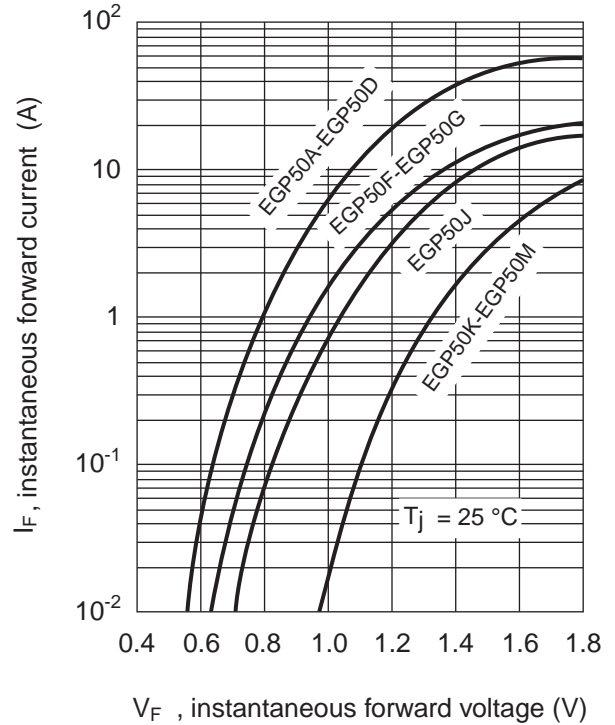
V_F	Max. forward voltage drop at $I_F = 5\text{ A}$	1.0 V	1.25 V	1.3 V	1.7 V
I_R	Max. reverse current at V_{RRM}	5 μA			
	at 150 °C	50 μA			
R_{thj-a}	Max. thermal resistance ($l = 10\text{ mm.}$)	20 °C/W			

Rating And Characteristic Curves

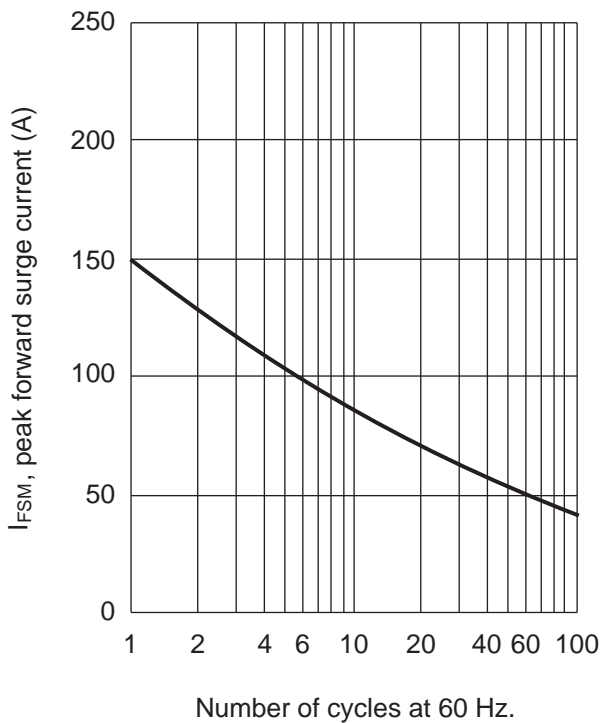
FORWARD CURRENT DERATING CURVE



TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

