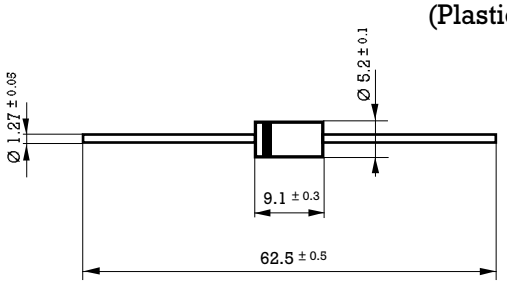
5 Amp. Glass Passivated Avalanche Ultrafast Recovery Rectifier

Dimensions in mm. DO-201AD (Plastic)



Voltage 50 to 400 V. Current 5 A at 55 °C.

HYPERECTIFIER®

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 3 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

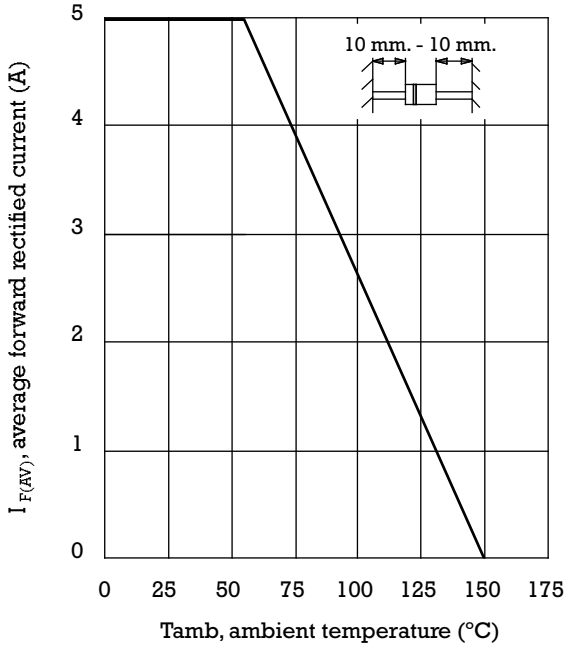
		EGP50A	EGP50B	EGP50D	EGP50F	EGP50G
V_{RRM}	Peak Recurrent reverse voltage (V)	50	100	200	300	400
V_{RMS}	Maximum RMS voltage	35	70	140	210	280
V_{DC}	Maximum DC blocking voltage	50	100	200	300	400
$I_{F(AV)}$	Forward current at Tamb = 55 °C	5 A				
I_{FRM}	Recurrent peak forward current (A)	50 A				
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	150 A				
t_{rr}	Max. reverse recovery time from I_F = 0.5 A ; I_R = 1 A ; I_{RR} = 0.25 A	50 ns				
C_j	Typical Junction Capacitance at 1 MHz and reverse voltaje of $4V_{DC}$	100 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 = 1A ; T_J = 25 °C	20 mJ				

Electrical Characteristics at Tamb = 25 °C

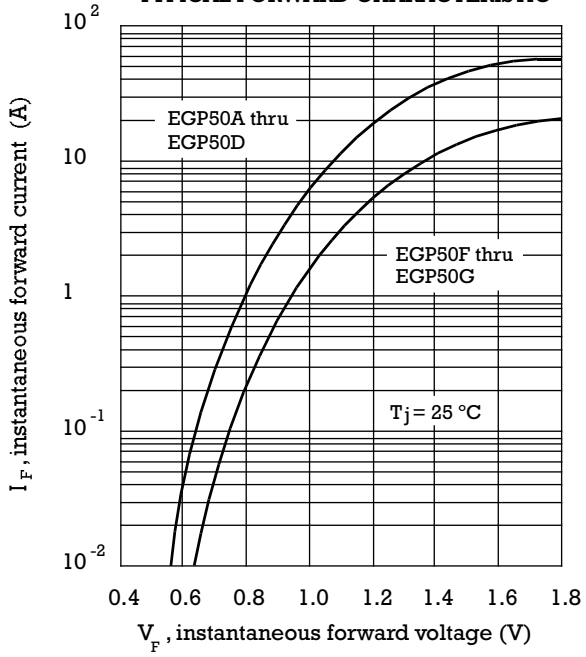
V_F	Max. forward voltage drop at I_F = 5 A	1.0V	1.25 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 150 °C	5 µ A 50 µ A	
R_{thj-a}	Max. thermal resistance (l = 10 mm.)	20 °C/W	

Rating And Characteristic Curves

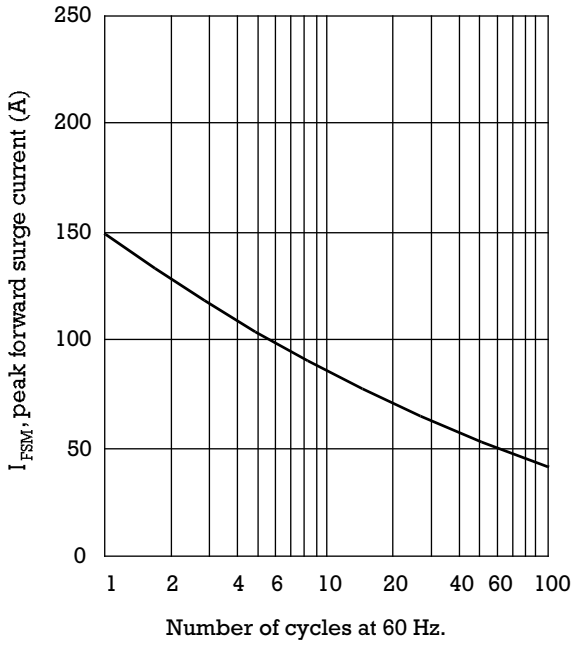
FORWARD CURRENT DERATING CURVE



TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

