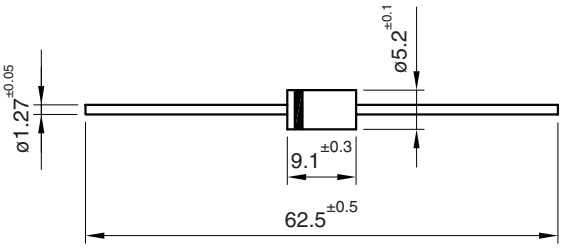
4 Amp. Glass Passivated Avalanche Ultrafast Recovery Rectifier

Dimensions in mm. **DO-201AD (Plastic)**



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.

Voltage 200 to 600 V

Current 4 A at 40 °C

HYPERECTIFIER®

- **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

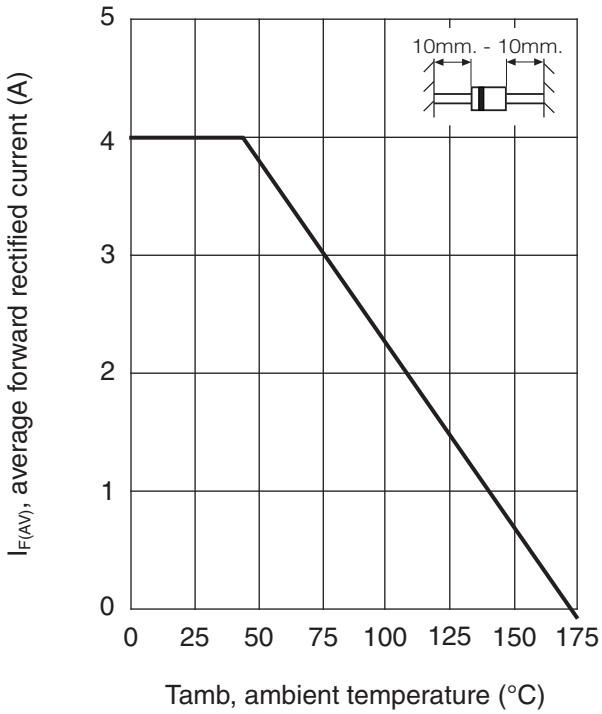
		FUR420	FUR440	FUR460
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	200	400	600
V_{RMS}	Maximum RMS Voltage (V)	140	280	420
V_{DC}	Maximum DC Blocking Voltage (V)	200	400	600
$I_{F(AV)}$	Forward Current at Tamb = 40 °C	4 A		
I_{FRM}	Recurrent Peak Forward Current	50 A		
I_{FSM}	8.3 ms.Peak Forward Surge Current (Jedec Method)	150 A		
T_{rr}	Max. Reverse Recovery Time From I_F = 0.5 A; I_R = 1 A; I_{rr} = 0.25 A	30 ns	50 ns	
C_j	Typical Junction Capacitance at 1 MHz and Reverse Voltaje of 4 V_{DC}	100 pF		
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 = 1.0 A; T_j = 25 °C	20 mJ		

Electrical Characteristics at Tamb = 25 °C

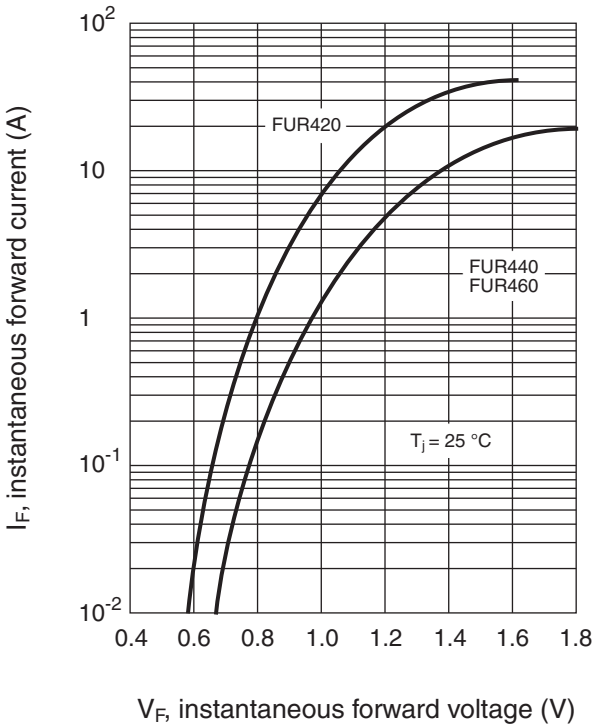
V_F	Max. Forward Voltage Drop at I_F = 4 A		1.10 V	1.28 V
I_R	Max. Reverse Current at V_{RRM}	at 25°C at 150 °C	5 µA 150 µA	10 µA 250 µA
$R_{th\ (j-a)}$	Max. Thermal Resistance (l = 10 mm)		20 °C/W	

Rating And Charasterictic Curves

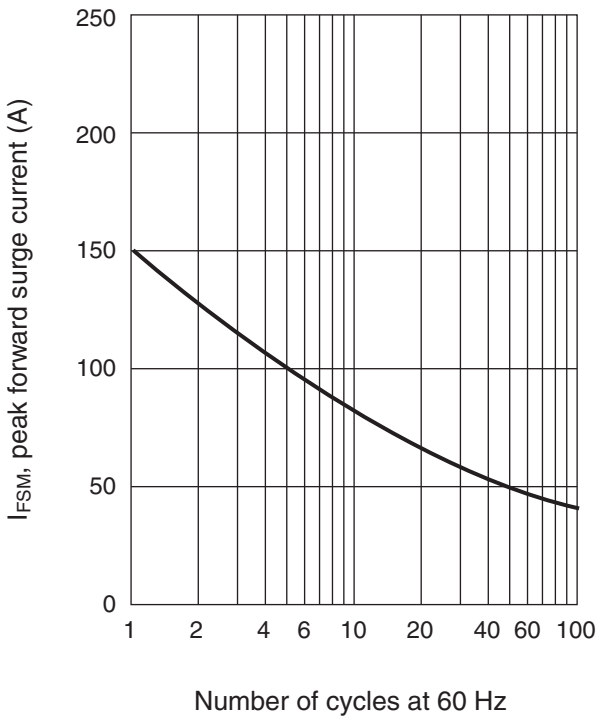
FORWARD CURRENT DERATING CURVE



TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE