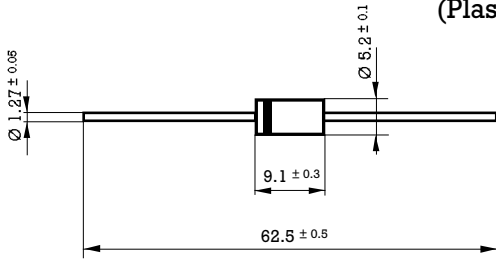





5 Amp. Glass Passivated Avalanche Ultrafast Recovery Rectifier

<p>Dimensions in mm.</p> <div style="text-align: center;">  </div> <p style="text-align: center;">DO-201 AD (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 3 mm. to the body. 	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center; width: 50%;">Voltage 200 to 600 V</td> <td style="text-align: center; width: 50%;">Current 5 A at 20 °C</td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 10px 0;">  </td> </tr> </table> <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 200 to 600 V	Current 5 A at 20 °C		
Voltage 200 to 600 V	Current 5 A at 20 °C				
					

Maximum Ratings, according to IEC publication No. 134

		FUR520	FUR540	FUR560
V_{RRM}	Peak Recurrent 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 $T_{amb} = 20\text{ °C}$	5 A		
I_{FRM}	Recurrent peak forward current	50 A		
I_{FSM}	8.3 ms. peak forward surge current <small>(Jedec Method)</small>	150 A		
t_{tr}	Max. reverse recovery time from $I_F = 1.0\text{ A}$; $dI_F/dt = -50\text{ A}/\mu\text{s}$; $V_R = 30\text{ V}$	50 ns	95 ns	
C_j	Typical Junction Capacitance at 1 MHz and reverse voltage of $4V_{DC}$	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. $I_R = 1.0\text{ A}$; $T_j = 25\text{ °C}$	20 mJ		

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

V_F	Max. forward voltage drop at $I_F = 5\text{ A}$	1.1 V	1.30 V
I_R	Max. reverse current at V_{RRM} at 25 °C at 150 °C	5 μA 150 μA	10 μA 250 μA
R_{thj-a}	Max. thermal resistance (l = 10 mm.)	20 °C/W	

Rating And Characteristic Curves

