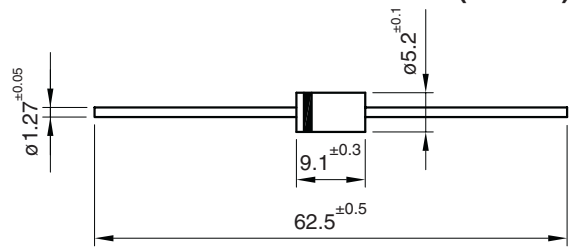



### 4 Amp. Glass Passivated Avalanche Ultrafast Recovery Rectifier

<p><b>Dimensions in mm.</b></p> <p style="text-align: right;"><b>DO-201AD (Plastic)</b></p>  <p><b>Mounting instructions</b></p> <ol style="list-style-type: none"> <li>1. Min. distance from body to soldering point, 4 mm.</li> <li>2. Max. solder temperature, 350 °C.</li> <li>3. Max. soldering time, 3.5 sec.</li> <li>4. Do not bend lead at a point closer than 3 mm. to the body.</li> </ol>	<p style="text-align: center;"><b>Voltage</b> 200 to 600 V</p> <p style="text-align: center;"><b>Current</b> 4 A at 40 °C</p> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>• Glass Passivated Junction</li> <li>• High current capability</li> <li>• The plastic material carries U/L recognition 94 V-0</li> <li>• Terminals: Axial Leads</li> <li>• Polarity: Color band denotes cathode</li> </ul>
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### Maximum Ratings, according to IEC publication No. 134

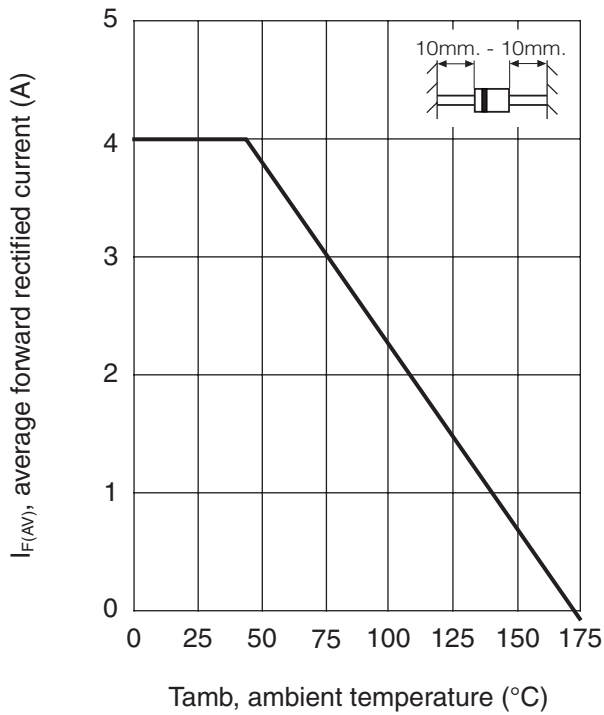
		FUR420	FUR440	FUR460
$V_{RRM}$	Maximum Recurrent Peak Reverse Voltage (V)	200	400	600
$V_{RMS}$	Maximum RMS Voltage (V)	140	280	420
$V_{DC}$	Maximum DC Blocking Voltage (V)	200	400	600
$I_{F(AV)}$	Forward Current at $T_{amb} = 40\text{ °C}$	4 A		
$I_{FRM}$	Recurrent Peak Forward Current	50 A		
$I_{FSM}$	8.3 ms. Peak Forward Surge Current (Jedec Method)	125 A		
$T_{rr}$	Max. Reverse Recovery Time From $I_F = 0.5\text{ A}; I_R = 1\text{ A}; I_{rr} = 0.25\text{ A}$	30 ns	50 ns	
$C_j$	Typical Junction Capacitance at 1 MHz and Reverse Voltage 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. $I_R = 1.0\text{ A}; T_j = 25\text{ °C}$	20 mJ		

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

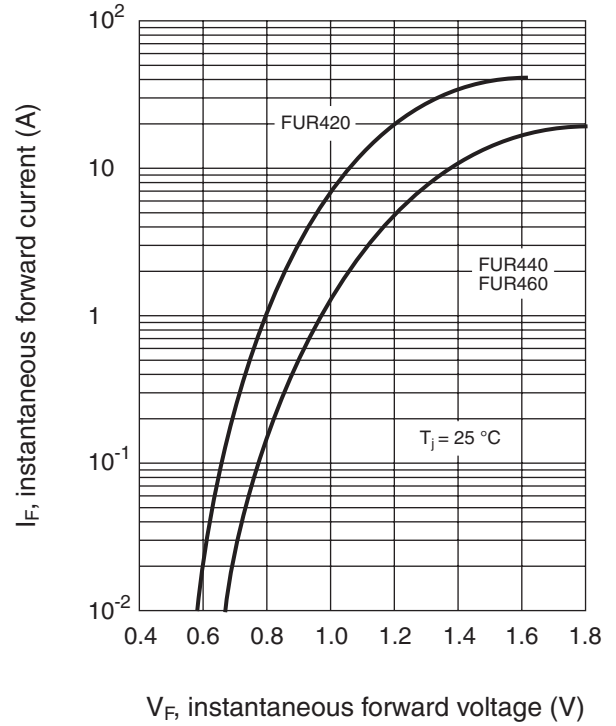
$V_F$	Max. Forward Voltage Drop at $I_F = 4\text{ A}$	1.10 V	1.28 V
$I_R$	Max. Reverse Current at $V_{RRM}$ at 25 °C at 150 °C	5 $\mu\text{A}$ 150 $\mu\text{A}$	10 $\mu\text{A}$ 250 $\mu\text{A}$
$R_{th(j-a)}$	Max. Thermal Resistance ( $l = 10\text{ mm}$ )	20 °C/W	

**Rating And Characteristic Curves**

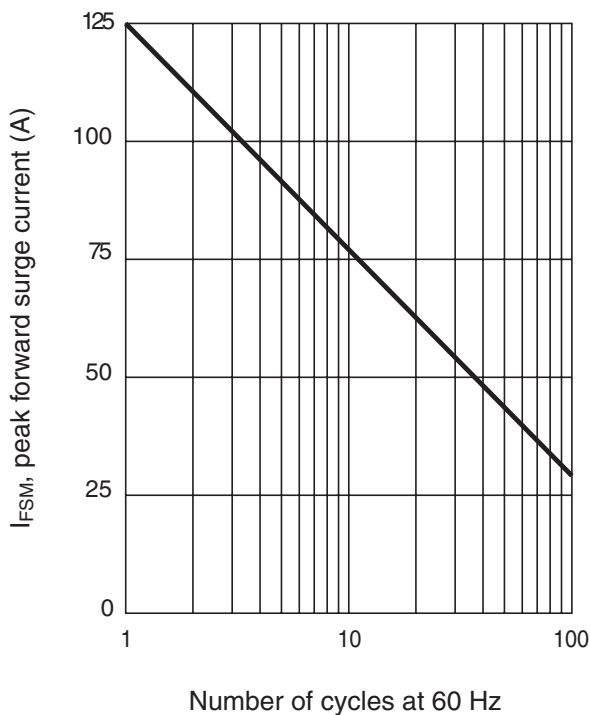
**FORWARD CURRENT DERATING CURVE**



**TYPICAL FORWARD CHARACTERISTIC**



**MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**TYPICAL JUNCTION CAPACITANCE**

