

## 5 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> 50 to 400 V.</p> <p style="text-align: center;"><b>Current</b> 5 A at 55 °C.</p> <div style="text-align: center; margin: 10px 0;"> </div> <ul style="list-style-type: none"> <li>• <b>Glass Passivated Junction</b></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

		<b>EGP50A</b>	<b>EGP50B</b>	<b>EGP50D</b>	<b>EGP50F</b>	<b>EGP50G</b>
$V_{RRM}$	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 $T_{amb} = 55\text{ °C}$	5 A				
$I_{FRM}$	Recurrent peak forward current (A)	50 A				
$I_{FSM}$	8.3 ms. peak forward surge current <small>(Jedec Method)</small>	150 A				
$t_{tr}$	Max. reverse recovery time from $I_F = 0.5\text{ A}$ ; $I_R = 1\text{ A}$ ; $I_{RR} = 0.25\text{ A}$	50 ns				
$C_j$	Typical Junction Capacitance at 1 MHz and reverse voltage 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. $I_R = 1\text{ A}$ ; $T_J = 25\text{ °C}$	20 mJ				

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

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

### Rating And Characteristic Curves

