

semiconductors

company

product

sales network

site index

contact us

semiconductors :: product :: **Ultrafast Recovery Rectifiers**

### **Product: Ultrafast Recovery Rectifiers**

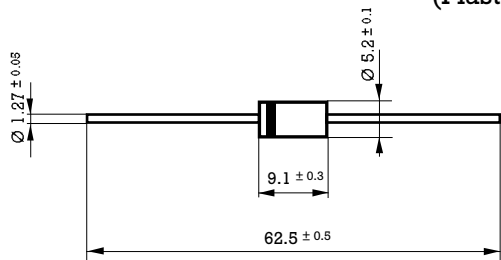

FAGOR ELECTRONICA's Ultrafast Recovery Rectifiers offer reverse recovery times down to 30ns using broad range of forward current possibilities and packages.

Ideal for high frequency applications like SMPS, Monitors, Electronic Ballast, Inverters....

Manufactured using HYPERRECTIFIER© technology, we offer these devices housed either in leaded packages or SMD.

Product	Family	$I_{F(AV)}$ (A)	$I_{FSM}$ (A)	$V_{RRM}$ (V)	$V_F$ (V)	$T_{RR}$ (ns)	OUTLINE
<a href="#">EGP50G</a>	EGP50	5.0	150	400	1.25	50	DO201-AD

## 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>
--	---

### 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	1.25 V
$I_R$	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	