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

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

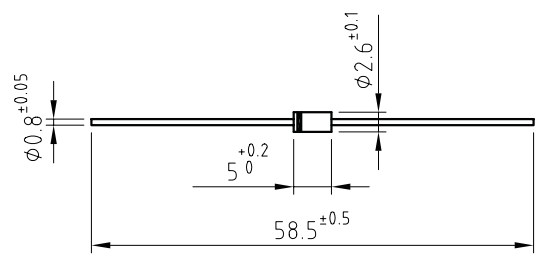

FAGOR ELECTRONICA's Ultrafast Recovery Rectifiers offer reverse recovery times down to 30ns using broad range of forward current possibilities and packages.

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

Manufactured using HYPERECTIFIER© 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="#">BYV26E</a>	BYV26	1.0	30	1000	1.3	75	DO-41

## 1 Amp. Very Fast Soft Recovery Glass Passivated Avalanche Diode

<p><b>Dimensions in mm.</b></p> <p style="text-align: center;"><b>DO-41 (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 2 mm. to the body.</li> </ol>	<p style="text-align: center;"><b>Voltage</b> 200 to 1000 V</p> <p style="text-align: center;"><b>Current</b> 1.0 A at 55 °C</p> <div style="text-align: center; margin: 20px 0;">  </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

		BYV26A	BYV26B	BYV26C	BYV26D	BYV26E
$V_{RRM}$	Peak Recurrent Reverse Voltage (V)	200	400	600	800	1000
$V_{RMS}$	Maximum RMS Voltage (V)	140	280	420	560	700
$V_{DC}$	Maximum DC Blocking Voltage (V)	200	400	600	800	1000
$I_{F(AV)}$	Forward current at $T_{amb} = 55\text{ °C}$	1 A				
$I_{FRM}$	Recurrent peak forward current	10 A				
$I_{FSM}$	10 ms. peak forward surge current	30 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			75 ns	
$V_{BR}$	Avalanche breakdown voltage at 100 $\mu\text{A}$ (V)	>300	>500	>700	>900	>1100
$T_j$	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 $I_R = 0.5\text{ A}$ ; $T_j = 25\text{ °C}$	20 mJ				

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

$V_F$	Max. forward voltage drop at $I_F = 1\text{ A}$	at 25 °C 2.5 V	at 175 °C 1.3 V
$I_R$	Max. reverse current at $V_{RRM}$	at 25 °C 5 $\mu\text{A}$	at 165 °C 150 $\mu\text{A}$
$R_{th(j-a)}$	Max. thermal resistance ( $l = 10\text{mm}$ )	50 °C/W	