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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
FUF4005	FUF4000	1.0	30	600	1.7	75	DO-41

1 Amp. Glass Passivated Ultrafast Recovery Rectifier

<p>Dimensions in mm.</p> <p>DO-41 (Plastic)</p>	<p>Voltage 50 to 1000 V.</p> <p>Current 1 A at 55 °C.</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 2 mm. to the body. 	<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

Maximum Ratings, according to IEC publication No. 134

		FUF4001	FUF4002	FUF4003	FUF4004	FUF4005	FUF4006	FUF4007	
V_{RRM}	Peak Recurrent reverse voltage (V)	50	100	200	400	600	800	1000	
V_{RMS}	Maximum RMS voltage	35	70	140	280	420	560	700	
V_{DC}	Maximum DC blocking voltage	50	100	200	400	600	800	1000	
$I_{F(AV)}$	Forward current at $T_{amb} = 55\text{ °C}$	1 A							
I_{FRM}	Recurrent peak forward surge current	10 A							
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	30 A							
t_{rr}	Max. reverse recovery time from $I_F = 0.5\text{ A}$; $I_R = 1\text{ A}$; $I_{RR} = 0.25\text{ A}$	50 ns				75 ns			
C_j	Typical Junction Capacitance at 1 MHz and reverse voltage of $4V_{DC}$	15 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. $I_R = 0.5\text{ A}$; $T_j = 25\text{ °C}$	20 mJ							

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

V_F	Max. forward voltage drop at $I_F = 1\text{ A}$	1.3 V	1.7 V
I_R	Max. reverse current at V_{RRM} at 25 °C	5 $\mu\text{ A}$	
R_{thj-a}	Max. thermal resistance (l = 10 mm.)	50 °C/W	