



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
FES3J	FES3	3.0	100	600	1.25	50	DO214AB/SMC

3 Amp. Surface Mounted Glass Passivated Ultrafast Recovery Rectifier

<p>Dimensions in mm.</p>	<p>CASE: SMC/DO-214 AB</p>	<p>Voltage 50 to 600 V</p> <p>Current 3.0 A</p>
<ul style="list-style-type: none"> • Glass passivated junction • High current capability • The plastic material carries U/L 94 V-0 • Low profile package • Easy pick and place • High temperature soldering 260 °C 10 sec 		
<p>MECHANICAL DATA</p> <p>Terminals: Solder plated, solderable per IEC 68-2-20. Standard Packaging: 8 mm. tape (EIA-RS-481). Weight: 1.12 g.</p>		

Maximum Ratings and Electrical Characteristics at 25 °C

		FES3A	FES3B	FES3D	FES3F	FES3G	FES3J
Marking Code		W1	W2	W3	W4	W5	W6
V_{RRM}	Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	600
V_{RMS}	Maximum RMS Voltage	35	70	140	210	280	420
V_{DC}	Maximum DC Blocking Voltage	50	100	200	300	400	600
$I_{F(AV)}$	Forward current at $T_L = 100\text{ °C}$	3.0 A					
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	100 A					
V_F	Maximum Instantaneous Forward Voltage at 3.0 A	0.95 V			1.25 V		
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25\text{ °C}$ $T_a = 100\text{ °C}$	10 μ A 500 μ A					
T_{rr}	Maximum Reverse Recovery Time (0.5/1/0.25A)	50 ns					
C_j	Typical Junction Capacitance (1MHz; -4V)	45 pF					
$R_{th(j-l)}$ $R_{th(j-a)}$	Typical Thermal Resistance (5x5 mm ² x 130 μ Copper Area)	12 °C/W 47 °C/W					
$T_j - T_{stg}$	Operating Junction and Storage Temperature Range	-55 to + 150 °C					