



## Maximum Ratings and Electrical Characteristics at 25 °C

		FRS2A	FRS2B	FRS2D	FRS2G	FRS2J	FRS2K	FRS2M
Marking Code		G1	G2	G3	G4	G5	G6	G7
V <sub>RRM</sub>	Maximum Recurrent Peak Reverse Voltage (V)		100	200	400	600	800	1000
V <sub>RMS</sub>	Maximum RMS Voltage (V)		70	140	280	420	560	700
$V_{DC}$	Maximum DC Blocking Voltage (V)	50	100	200	400	600	800	1000
I <sub>F(AV)</sub>	Forward current at T <sub>L</sub> = 100 °C				1.5 A			
I <sub>FSM</sub>	8.3 ms. peak forward surge current (Jedec Method)				50 A			
V <sub>F</sub>	Maximum Instantaneous Forward Voltage at 1.5 A				1.3 V			
I <sub>R</sub>	Maximum DC Reverse Current $Tj = 25  ^{\circ}\text{C}$ at Rated DC Blocking Voltage $Tj = 125  ^{\circ}\text{C}$				5 μA 200 μA			
T <sub>rr</sub>	Maximum Reverse Recovery Time (0.5/1/0.25A)		150 ns			250 ns	300	ns
C <sub>j</sub>	Typical Junction Capacitance (1MHz; -4V)		35 pF					
R <sub>thj-l</sub> R <sub>th (j-a)</sub>	Typical thermal resistance (5x5 mm <sup>2</sup> x 130 µm Copper Area)		20 °C/W 60 °C/W					
T <sub>j</sub> - T <sub>stg</sub>	Operating Junction and Storage Temperature Range	-55 to + 150 °C						

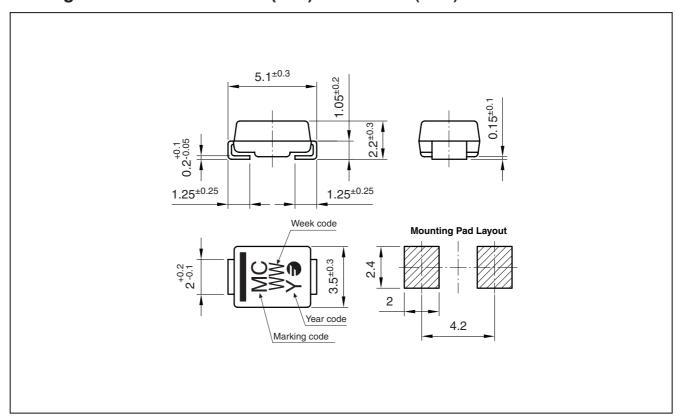
www.fagorelectronica.com Revision: 1 Version: May-16
Document Name: frs2 Page Number: 1/4



# **Ordering information**

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FRS2D TRTB	TRTB	13" diameter tape and reel	3,200	0.082

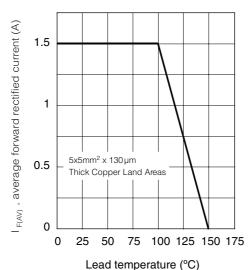
## Package Outline Dimensions: (mm) DO-214AA (SMB)



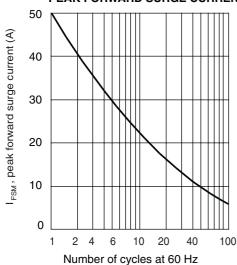


## Ratings and Characteristics (Ta 25 °C unless otherwise noted)

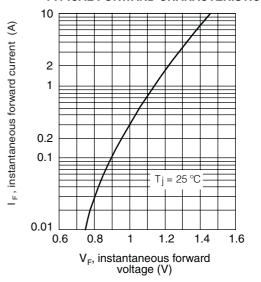
#### FORWARD CURRENT DERATING CURVE



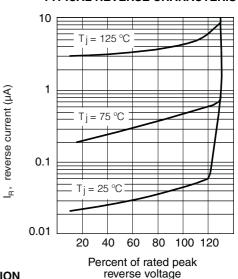
# MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



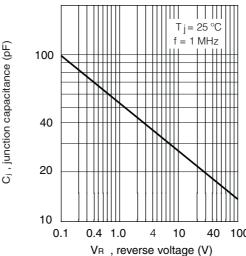
#### TYPICAL FORWARD CHARACTERISTIC



#### TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION CAPACITANCE





#### **Revision History**

Date	Revision	Description of Changes
Jan-2003	0	Original Data Sheet
May-2016	1	Format update

### **Disclaimer**

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

Fagor Electrónica, S.Coop., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Fagor"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Fagor makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Fagor disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Fagor's knowledge of typical requirements that are often placed on Fagor products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Fagor's terms and conditions of purchase, including but nos limited to the warranty expressed therein.

Except as expressly indicated in writing. Fagor products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Fagor product could result in personal injury or death. Customers using or selling Fagor products not expressly indicated for use in such applications do so at their own risk and agree to fully indemnify and hold Fagor and its distributors harmless from and against any and all claims, liabilities, expenses and damages arising or resulting in connection with such use or sale, including attomeys fees, even if such claim alleges that Fagor or its distributor was negligent regarding the design or manufacture of the part. Please contact authorized Fagor personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Fagor, Product names and markings noted herein may be trademarks of their respective owners.