

1.0 Amp. Surface Mounted Glass Passivated Rectifier

DO-214AC / SMA 	Voltage 400 V to 1200 V	Current 1.0 A	
			
	FEATURES <ul style="list-style-type: none"> • Low profile package • Ideal for automated placement • Low forward voltage drop • High forward surge current capability • Solder dip 260°C, 10s • Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC • Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C • Low leakage current 		   RoHS COMPLIANT
	MECHANICAL DATA <ul style="list-style-type: none"> • Case: DO-214AC (SMA). Epoxy meets UL 94V-0 flammability rating. • Polarity: Color band denotes cathode end. • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test. HE3 suffix for high reliability grade (AEC Q101 qualified), meets JESD 201 class 2 whisker test. 		
TYPICAL APPLICATIONS Used in general purpose rectification of power supplies, inverters, converters and freewheeling diodes for consumer, automotive and telecommunication.			

Maximun Ratings and Electrical Characteristics at 25°C

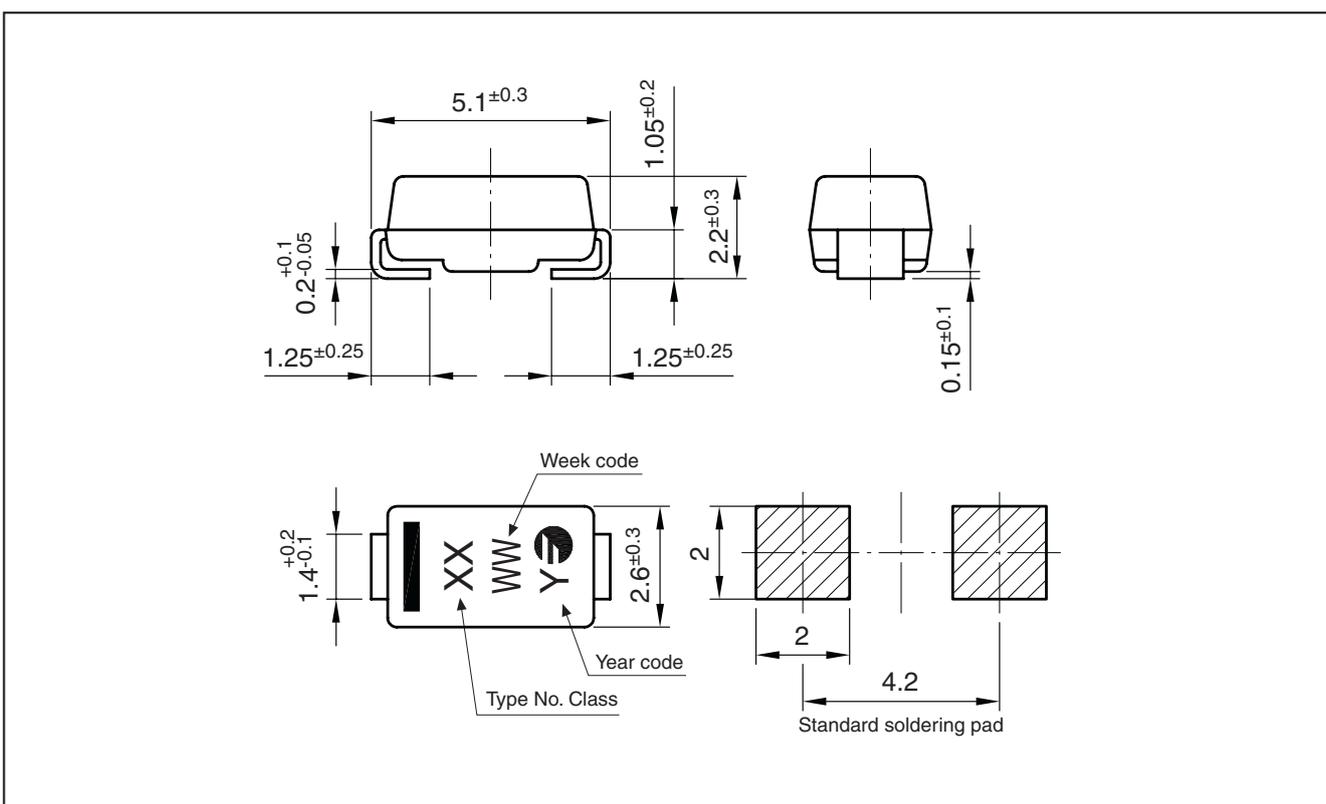
		FS1G	FS1J	FS1K	FS1M	FS1Q
Marking Code		R4	R5	R6	R7	R9
V _{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	400	600	800	1000	1200
V _{RMS}	Maximum RMS Voltage (V)	280	420	560	700	840
V _{DC}	Maximum DC Blocking Voltage (V)	400	600	800	1000	1200
I _{F(AV)}	Forward current at T _L = 110 °C	1.0 A				
I _{FSM}	8.3 ms. peak forward surge current (Jedec Method)	30 A				
V _F	Maximum Instantaneous Forward Voltage at 1.0A	1.1 V				
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	1 µA 50 µA				
T _{rr}	Typical Reverse Recovery Time (0.5/1/0.25A)	1.8 µs				
C _j	Typical Junction Capacitance (1MHz; -4V)	12 pF				
R _{th(j-l)}	Typical Thermal Resistance	27 °C/W				
R _{th(j-a)}	(5x5 mm ² x 130 µ Copper Area)	75 °C/W				
T _j - T _{stg}	Operating Junction and Storage Temperature Range	-55 to + 150 °C				

1.0 Amp. Surface Mounted Glass Passivated Rectifier

Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
FS1J TRTB	TRTB	13" diameter tape and reel	7,500	0.060
FS1J TRTS	TRTS	7" diameter tape and reel	1,500	0.060
FS1G HE3 TRTB	TRTB	13" diameter tape and reel	7,500	0.060
FS1G HE3 TRTS	TRTS	7" diameter tape and reel	1,500	0.060

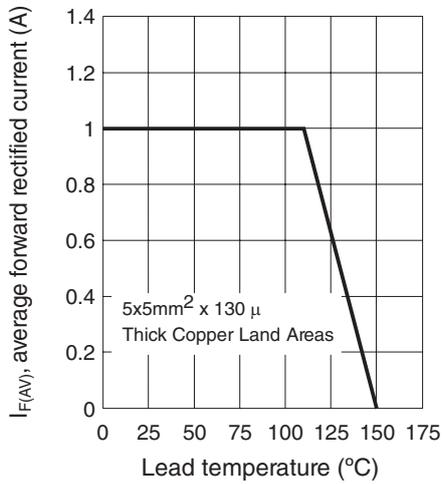
Package Outline Dimensions: (mm) DO-214AC / SMA



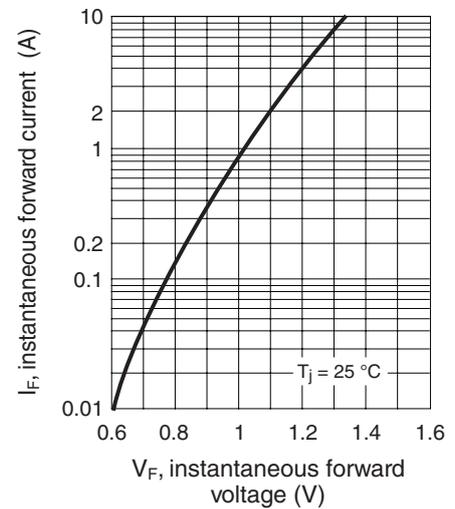
1.0 Amp. Surface Mounted Glass Passivated Rectifier

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

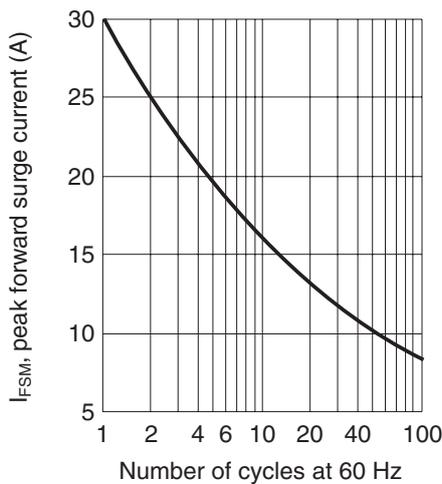
FORWARD CURRENT DERATING CURVE



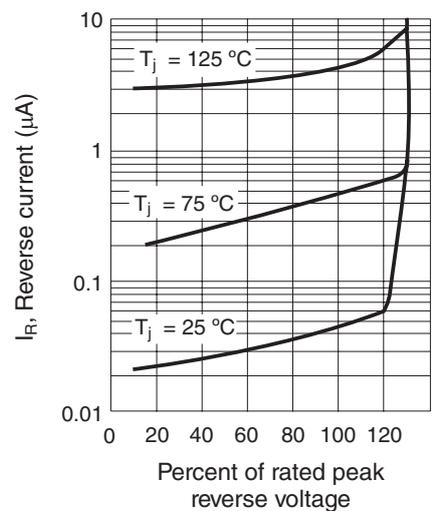
TYPICAL FORWARD CHARACTERISTIC



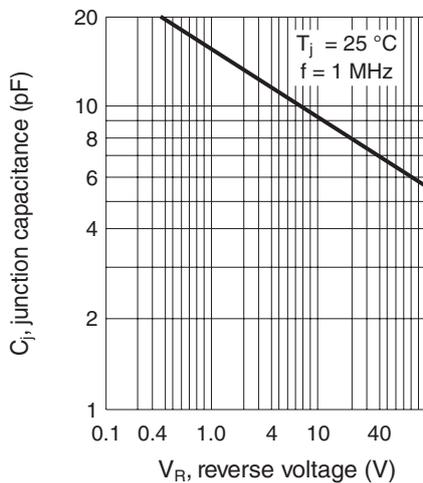
MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



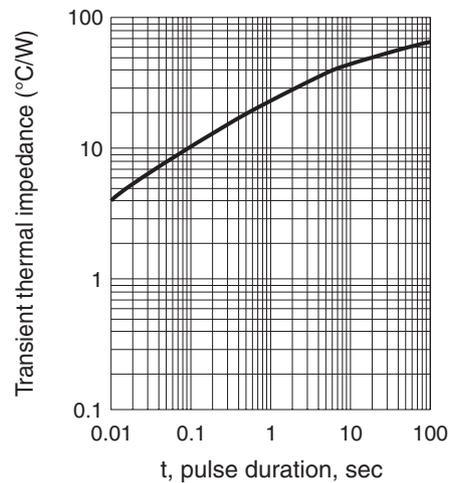
TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION CAPACITANCE



TYPICAL TRANSIENT THERMAL IMPEDANCE



1.0 Amp. Surface Mounted Glass Passivated Rectifier

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 not 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 attorneys 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.