

1.0 Amp. Glass Passivated Fast Recovery Rectifier

DO-204AL (DO-41) 	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Voltage 50V to 600V</td> <td style="text-align: center;">Current 1.0 A at 75 °C</td> </tr> </table> <div style="text-align: center; margin-top: 5px;">  </div>	Voltage 50V to 600V	Current 1.0 A at 75 °C
Voltage 50V to 600V	Current 1.0 A at 75 °C		
	<table style="width: 100%; border: none;"> <tr> <td style="width: 80%;"> FEATURES <ul style="list-style-type: none"> Low profile package Low power losses, high efficiency High surge current capability Cavity-free glass-passivated junction Low forward voltage drop Solder dip 260°C, 10s AEC-Q101 qualified Fast switching for high efficiency Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C </td> <td style="width: 20%; text-align: center; vertical-align: middle;">   RoHS COMPLIANT </td> </tr> </table>	FEATURES <ul style="list-style-type: none"> Low profile package Low power losses, high efficiency High surge current capability Cavity-free glass-passivated junction Low forward voltage drop Solder dip 260°C, 10s AEC-Q101 qualified Fast switching for high efficiency Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C 	  RoHS COMPLIANT
FEATURES <ul style="list-style-type: none"> Low profile package Low power losses, high efficiency High surge current capability Cavity-free glass-passivated junction Low forward voltage drop Solder dip 260°C, 10s AEC-Q101 qualified Fast switching for high efficiency Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C 	  RoHS COMPLIANT		
	MECHANICAL DATA <ul style="list-style-type: none"> Case: DO-204AL (DO-41). 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 		
	TYPICAL APPLICATIONS For use in fast switching rectification of power supply, inverters, converters, and freewheeling diodes for consumer, and telecommunication.		

Maximun Ratings and Electrical Characteristics at 25 °C

		1N 4933GP	1N 4934GP	1N 4935GP	1N 4936GP	1N 4937GP
V _{RRM}	Peak Recurrent Reverse Voltage (V)	50	100	200	400	600
I _{F(AV)}	Forward Current at Tamb = 75 °C	1.0 A				
I _{FRM}	Recurrent Peak Forward Current	10 A				
I _{FSM}	8.3 ms. Peak Forward Surge Current (Jedec Method)	30 A				
t _{rr}	Maximum reverse recovery time from I _F = 0.5 A; I _R = 1 A; I _{RR} = 0.25 A	150 ns				
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 A; T _j = 25 °C	20 mJ				

Electrical Characteristics at Tamb = 25 °C

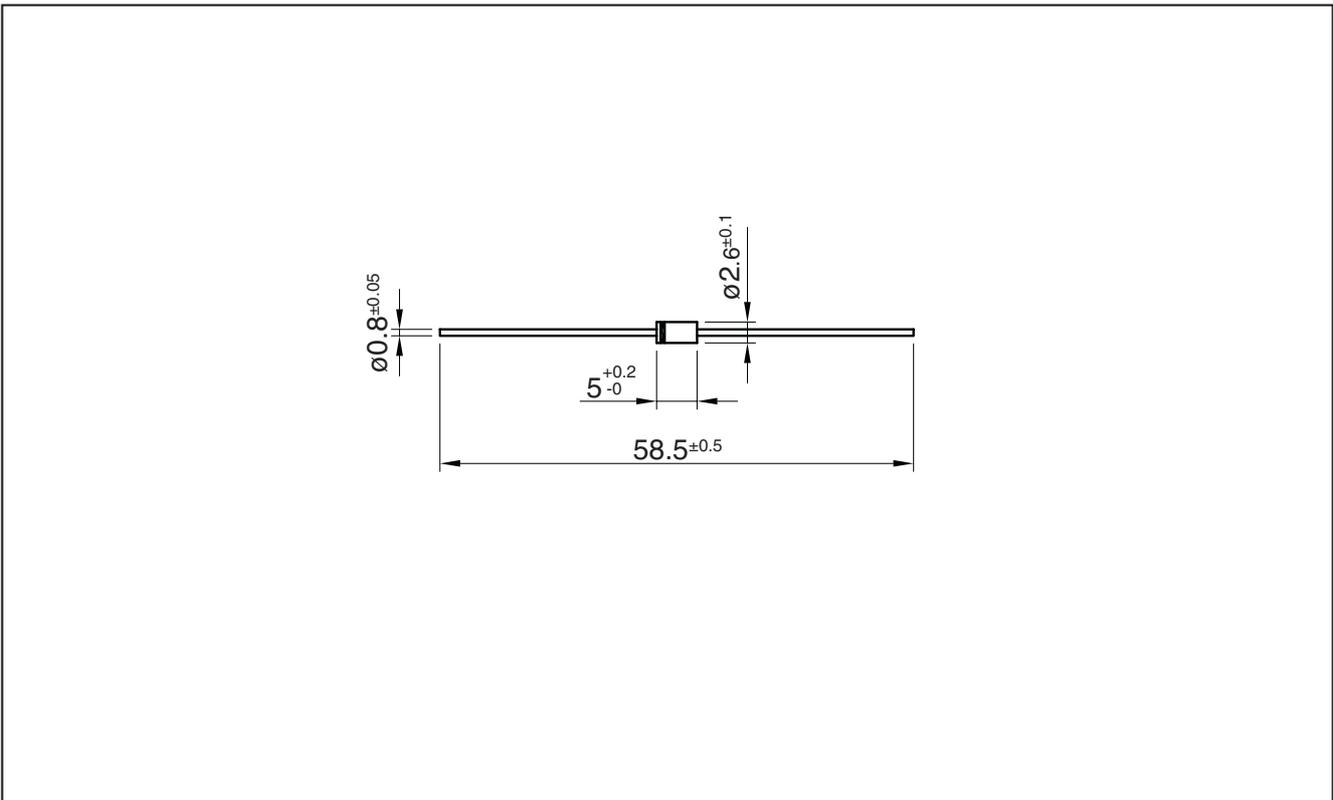
V _F	Maximum Forward Voltage Drop at I _F = 1 A	1.2 V
I _R	Maximun Reverse Current at V _{RRM} at 25 °C at 125 °C	5 µA 100 µA
R _{th(j-a)}	Thermal Resistance (l = 10mm.) Max. Typ.	60 °C/W 45 °C/W

1.0 Amp. Glass Passivated Fast Recovery Rectifier

Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
1N4933GP AMP	AMP	AMMO BOX	5,000	0.325
1N4933GP TR	TR	14" diameter tape and reel	5,000	0.325

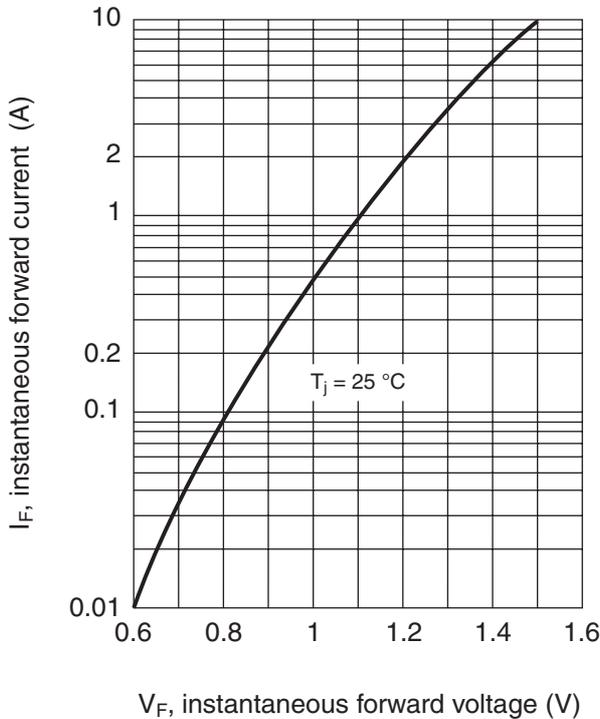
Package Outline Dimensions: (mm) DO-204AL (DO-41)



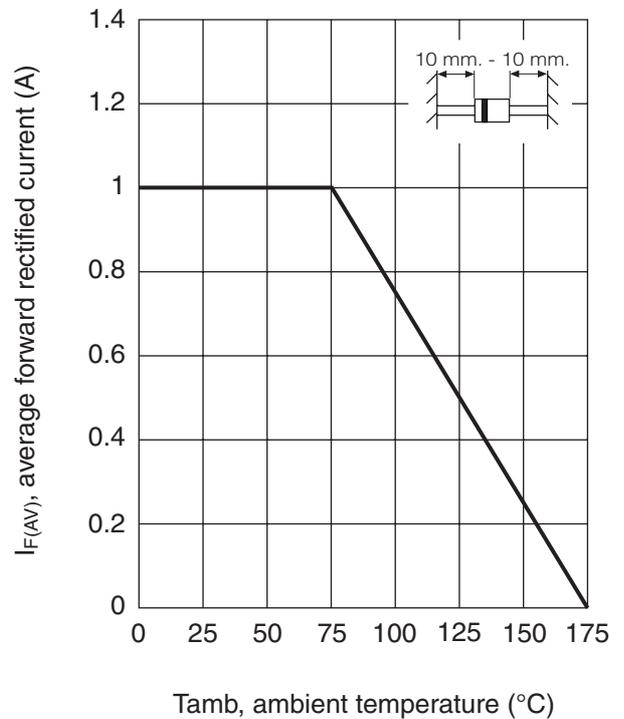
1.0 Amp. Glass Passivated Fast Recovery Rectifier

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

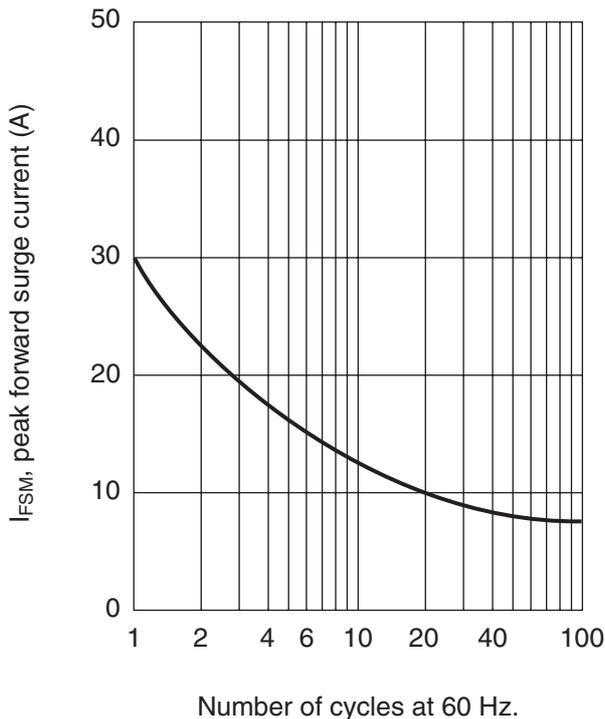
TYPICAL FORWARD CHARACTERISTIC



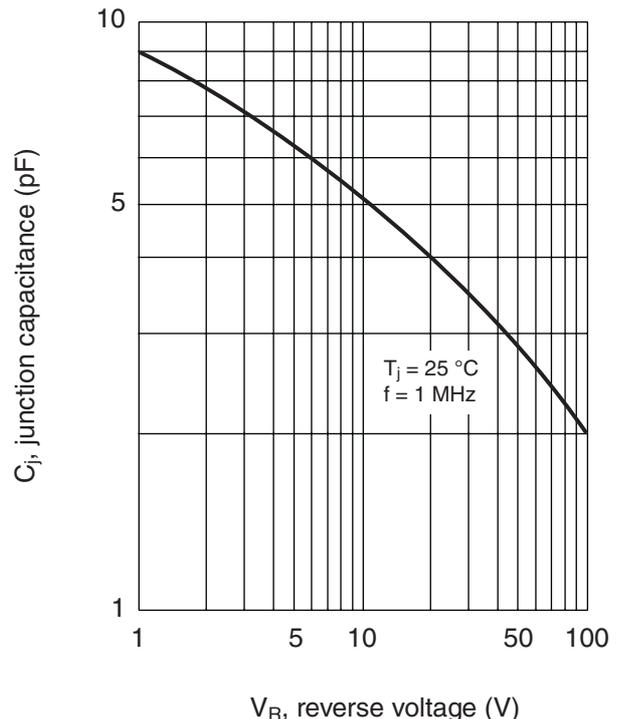
FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



1.0 Amp. Glass Passivated Fast Recovery Rectifier**Revision History**

Date	Revision	Description of Changes
12-Sep-2009	0	Original Data Sheet
21-Nov-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 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.