

RGP02-12 RGP02-20

0.5 Amp. Glass Passivated Fast Recovery Rectifier

	Voltage Current 1200 to 2000 V 0.5 A at 55 °C HYPERECTIFIER ®		
DO-204AL (DO-41)	FEATURE • Low profile package • Low power losses, high efficiency • High surge current capability • 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		
	 MECHANICAL DATA 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 retification of power supply, inverters, converters, an freewheeling diodes for consumer, and telecommunication.		

Maximum Ratings and Electrical Characteristics at 25 °C

		RGP02 -12	RGP02 -14	RGP02 -16	RGP02 -18	RGP02 -20
V _{RRM}	Peak Recurrent Reverse Voltage (V)	1200	1400	1600	1800	2000
I _{F(AV)}	Forward Current at Tamb = 55 °C $0.5 A$					
I _{FRM}	Recurrent Peak Forward Current	7 A				
I _{FSM}	8.3 ms. Peak Forward Surge Current (Jedec Method)	20 A				
t _{rr}	Maximum reverse recovery time from $I_F = 0.5 \text{ A}$; $I_R = 1 \text{ A}$; $I_{RR} = 0.25 \text{ A}$	300 ns				
Tj	Operating Temperature Range	-65 to +175°C				
T _{stg}	Storage Temperature Range	-65 to +175°C				

Electrical Characteristics at Tamb = 25 °C

V _F	Maximum Forward Voltage Drop at	: I _F = 0.5 A I _F = 0.1 A	
I _R	Maximup Povorco, Current at V	at 25 °C at 150 °C	5 μΑ 200 μΑ
R _{th(j-a)}	Thermal Resistance (I = 10mm.)	Мах. Тур.	60 °C/W 45 °C/W

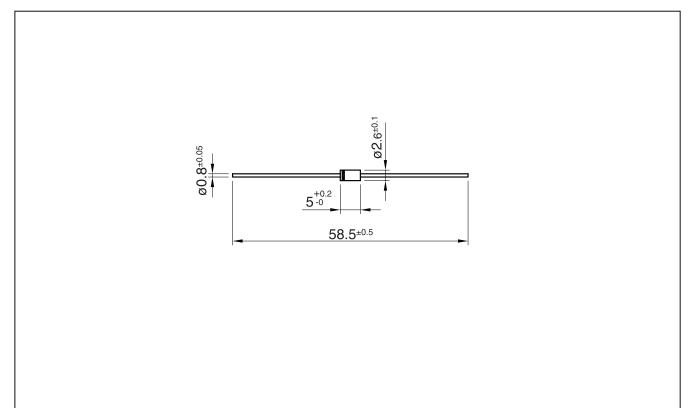


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Ordering Information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
RGP02-20 AMP	AMP	AMMO BOX	5,000	0.325
GP02-20 TR	TR	14" diameter tape and reel	5,000	0.325

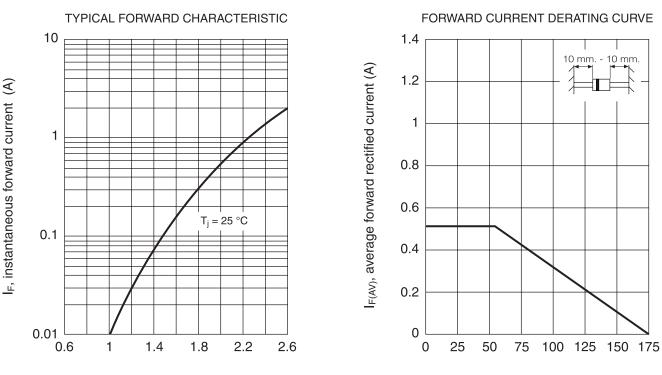
Package Outline Dimensions: (mm) DO-204AL (DO-41)





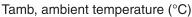


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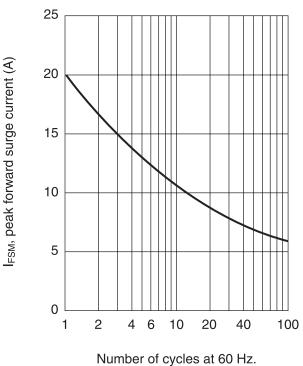


Ratings and Characteristics (Ta 25 °C unless otherwise noted)

V_F, instantaneous forward voltage (V)



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT





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Revision History

DATE	REVISION	DESCRIPTION OF CHANGES
12-Sep-2009	0	Original Data Sheet
25-Nov-2016	1	Format update

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