

GBP3005S THRU GBP310S Bridge Rectifiers

Features

- UL recognition, file #E230084
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

Mechanical Data

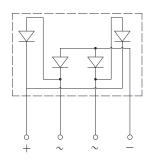
• package: GBP

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

 Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

• Polarity: As marked on body





■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBP3005S	GBP301S	GBP302S	GBP304S	GBP306S	GBP308S	GBP310S
Device marking code				GBP3005S	GBP301S	GBP302S	GBP304S	GBP306S	GBP308S	GBP310S
Repetitive peak reverse voltage		VRRM	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load	With heatsink $T_C = 130^{\circ}C$ Without heatsink $T_C = 70^{\circ}C$	Ю	А				3.0			
Surge(non-repetitive)forward current @60HZ sine wave, 1 cycle, Tj=25℃		IFSM	А	65						
Current squared time @1ms≤t<8.3ms Tj=25℃, Rating of per diode		l ² t	A ² s	17.5						
Storage temperature		T _{stg}	$^{\circ}$	-55 ~+150						
Junction temperature		Tj	$^{\circ}$	-55 ~+150						

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBP3005S	GBP301S	GBP302S	GBP304S	GBP306S	GBP308S	GBP310S
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=1.5A				1.00			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM				5			

Thermal Characteristics $(T_a=25$ ^oC Unless otherwise specified)

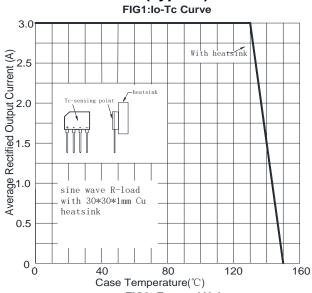
PARAMETER		SYMBOL	UNIT	GBP3005S	GBP301S	GBP302S	GBP304S	GBP306S	GBP308S	GBP310S
Thermal	Between junction and ambient	RθJ-A °C/W		50.0						
Resistance Between junction and lead ReJ-c		R ₀ J-c	C/VV	5.0						

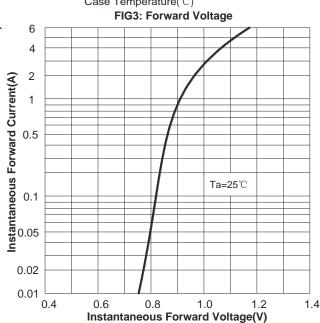
GBP3005S THRU GBP310S Bridge Rectifiers

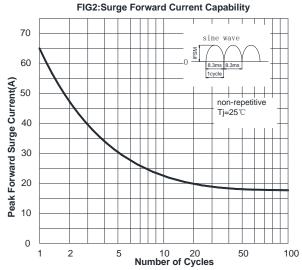
■Ordering Information (Example)

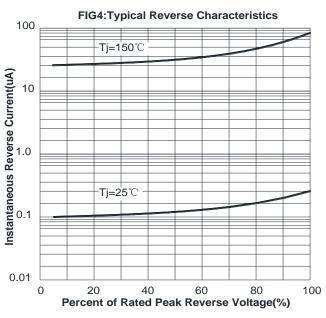
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBP3005S THRU GBP310S	B1	1.4	35	2100	4200	TUBE

■ Characteristics (Typical)





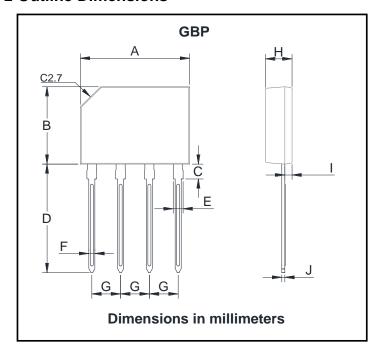






GBP3005S THRU GBP310S Bridge Rectifiers

■ Outline Dimensions



GBP						
Dim	Min	Max				
Α	14.25	14.75				
В	10.10	10.60				
С	1.80	2.20				
D	14.25	14.73				
Е	1.22	1.42				
F	0.76	0.86				
G	3.70	3.90				
Н	3.35	3.65				
I	0.80	1.10				
J	0.35	0.55				

Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Steifpower Technology products best suited to the customer's applications, they do not convey any license under any intellectual property rights, or any other rights, belonging to Steifpower Technology or third party. Steifpower Technology assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials. All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Steifpower Technology without notice due to product improvements or other reasons.

It is therefore recommended that customers contact Steifpower Technology or unauthorized Steifpower Technology for the latest product information before purchasing a productlisted herein.

The information described here may containtechnical inaccuracies or typographicalerrors.

Steifpower Technology assumes no responsibility for any damage, liability, or other loss rising from theseinaccuracies or errors.

Please also pay attention to information published by Steifpower Technologyby various means including our website home page (http://www.steifpower.com).

When using any or all of the information contained in these materials, including product data diagrams, charts, programs, and algorithms, please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products.

Steifpower Technology assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Steifpower Technology is necessary to reprint or reproduce in whole or in part these materials.

Please contact Steifpower Technology or an authorized distributor for further details on these materials or the products contained herein.