

Features

- UL recognition, file #E230084
- Glass passivated chip junction
- 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)

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PARAMETER	SYMBOL	UNIT	GBP3005S	GBP301S	GBP302S	GBP3045	GBP306S	GBP3085	GBP310S
Device marking code			GBP3005S	GBP301S	GBP302S	GBP304S	GBP306S	GBP308S	GBP310S
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Tc=120°C	Ю	Α	3.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	IFOM	A	70						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	- IFSM		140						
Current squared time @1ms≤t<8.3ms Tj=25°C,Rating of per diode	l ² t	A ² s	20.3						
Dielectric strength @ terminals to case, AC 1 minute	Vdis	KV	2						
Storage temperature	T _{stg}	°C	-55 ~ +150						
Junction temperature	Tj	°C	-55 ~ +150						

GBP3005S THRU GBP310S

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

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBP3005S GBP301S GBP302S GBP304S GBP306S GBP308S GBP310S					
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=1.5A	1.0					
Maximum DC reverse current at rated DC blocking voltage	lR	μA	T _j =25℃	5					
per diode	ır.	μΑ	T _j =125°C	100					
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	22					

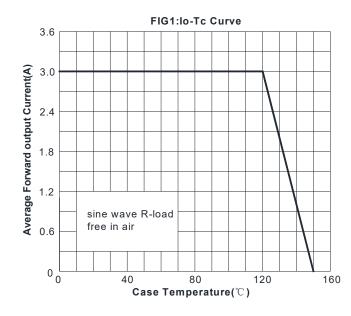
■Thermal Characteristics (Ta=25°C Unless otherwise specified)

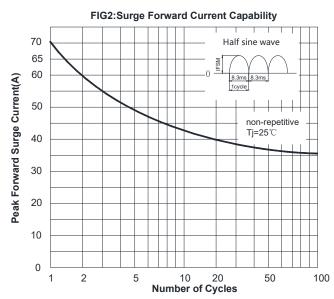
PARAMETER		SYMBOL	UNIT	GBP3005S	GBP301S	GBP302S	GBP304S	GBP306S	GBP308S	GBP310S
Thermal	Between junction and ambient	R ₀ J-A	°C/W	45						
Resistance	Between junction and lead	R ₀ J-c	C/VV	5						

■Ordering Information (Example)

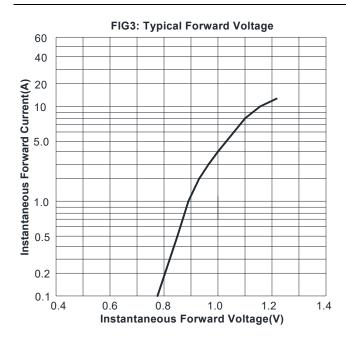
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM INNER BOX PACKAGE(pcs) QUANTITY(pcs		OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBP3005S - GBP310S	B1	Approximate 1.4	35	2100	4200	TUBE

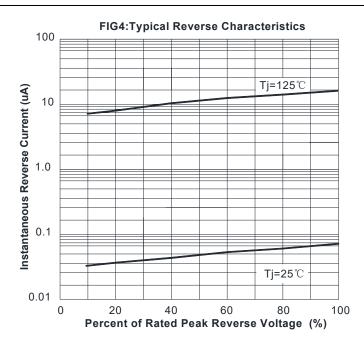
■ Characteristics (Typical)



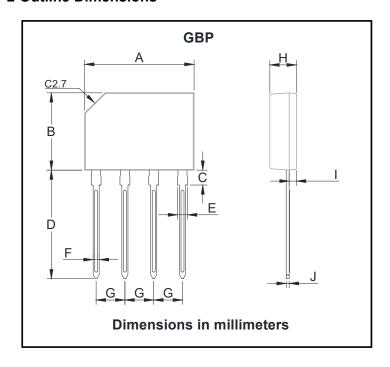


GBP3005S THRU GBP310S





■ 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				



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