

### **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)

= Maximum Ratings (1a-23 © Offices officials 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 $T_C = 70^{\circ}C$	- IO	А	3.0						
Surge(non-repetitive)forward current @60HZ sine wave, 1 cycle, Tj=25°C		IFSM	Α	65						
Current squared time @1ms≤t<8.3ms Tj=25℃, Rating of per diode		l <sup>2</sup> t	A <sup>2</sup> s	17.5						
Storage temperature		Tstg	$^{\circ}$	-55 ~+150						
Junction temperature		Tj	$^{\circ}$	-55 ~+150						

## **■Electrical Characteristics** (T<sub>a</sub>=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	V	IFM=1.5A				1.00			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM				5			

### **■Thermal Characteristics** (T<sub>a</sub>=25°C Unless otherwise specified)

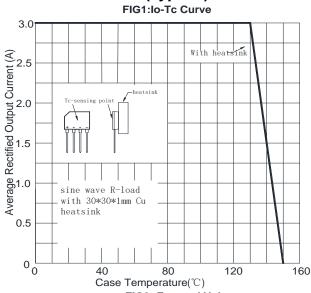
PARAMETER		SYMBOL	UNIT	GBP3005S	GBP301S	GBP302S	GBP304S	GBP306S	GBP308S	GBP310S
Thermal	Between junction and ambient	RøJ-A	50.0							
Resistance Between junction and lead		RθJ-c	C/VV	5.0						

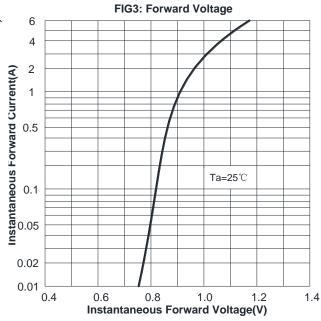


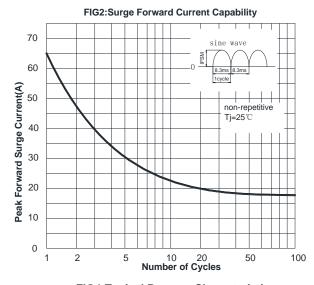
**■**Ordering Information (Example)

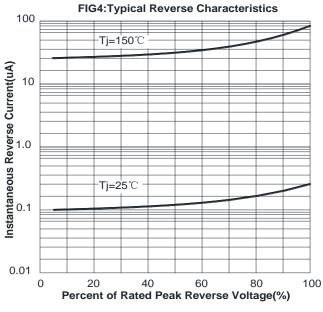
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBP3005S THRU GBP310S	B1	1.4	35	2100	4200	TUBE

# **■** Characteristics (Typical)



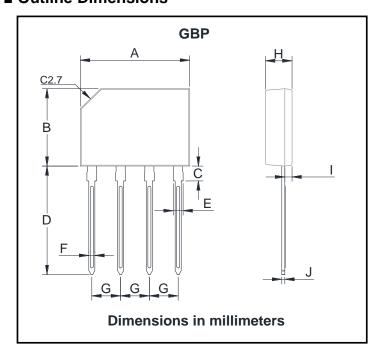








# **■ Outline Dimensions**



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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