

### **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)

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PARAMETER		SYMBOL	UNIT	GBP3005	GBP301	GBP302	GBP304	GBP306	GBP308	GBP310
Device marking code				GBP3005	GBP301	GBP302	GBP304	GBP306	GBP308	GBP310
Repetitive peak reverse voltage		VRRM	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load	· 11c=140(: 1 . 1 . 1			3.0						
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25℃		IFSM	Α	90						
Current squared time @1ms≤t≤8.3ms Tj=25°C,Rating of per diode		I <sup>2</sup> t	A <sup>2</sup> s	33						
Storage temperature		T <sub>stg</sub>	$^{\circ}$	-55 ~+150						
Junction temperature		Tj	$^{\circ}$	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBP3005	GBP301	GBP302	GBP304	GBP306	GBP308	GBP310
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=1.5A	1.05						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	10						

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

PARAMETER		SYMBOL	UNIT	GBP3005	GBP301	GBP302	GBP304	GBP306	GBP308	GBP310
Thermal	Between junction and ambient	RøJ-A	RθJ-A °C/W		47					
Resistance Between junction and lead		R <sub>0</sub> J-L	CIVV	10					_	

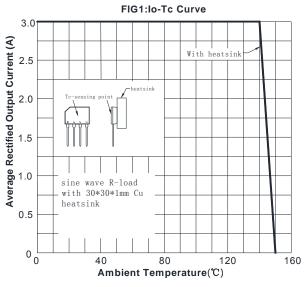


# **GBP3005 THRU GBP310**

**■**Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBP3005-GBP310	B1	1.37	35	3500	7000	TUBE
GBP3005-GBP310	A1	1.37	500	500	5000	вох

## **■** Characteristics (Typical)



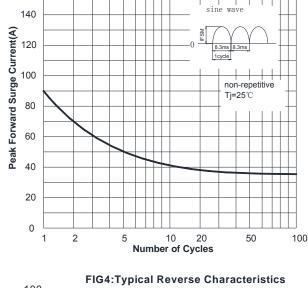
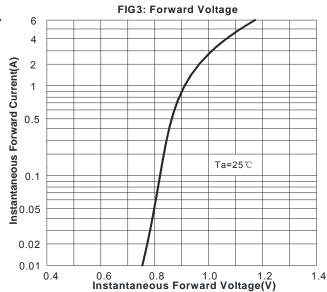
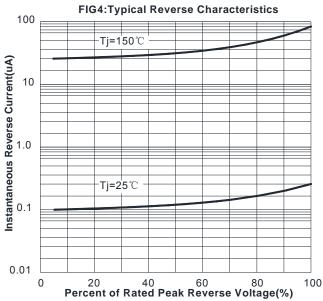


FIG2:Surge Forward Current Capability

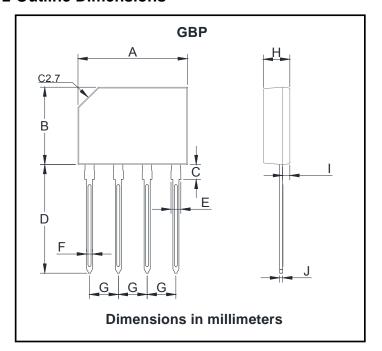








## **■ Outline Dimensions**



GBP						
Dim	Min	Max				
Α	14.25	14.75				
В	10.10	10.60				
С	1.80	2.20				
D	14.25	14.73				
E	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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