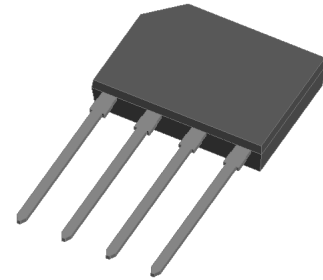


Features

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

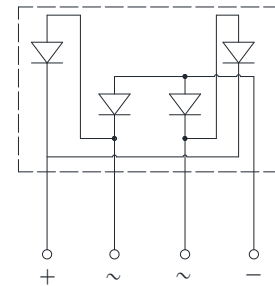
Typical Applications

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 (T_a=25 °C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBP2005S	GBP201S	GBP202S	GBP204S	GBP206S	GBP208S	GBP210S
Device marking code				GBP2005S	GBP201S	GBP202S	GBP204S	GBP206S	GBP208S	GBP210S
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 °C	IO	A	2.0						
	Without heatsink T _C =70 °C									
Surge(non-repetitive)forward current @60HZ sine wave, 1 cycle, T _J =25 °C		IFSM	A	50						
Current squared time @1ms≤t<8.3ms T _J =25 °C, Rating of per diode		I ² t	A ² s	10.4						
Storage temperature		T _{stg}	°C	-55 ~+150						
Junction temperature		T _J	°C	-55 ~+150						

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

PARAMETER		SYMBOL	UNIT	TEST CONDITIONS	GBP2005S	GBP201S	GBP202S	GBP204S	GBP206S	GBP208S	GBP210S
Maximum instantaneous forward voltage drop per diode		V _F	V	IFM=1.0A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode		I _{RRM}	μA	V _{RM} =V _{RRM}	5						

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

PARAMETER		SYMBOL	UNIT	GBP2005S	GBP201S	GBP202S	GBP204S	GBP206S	GBP208S	GBP210S
Thermal Resistance	Between junction and ambient	R _{θJ-A}	°C/W	50.0						
	Between junction and lead	R _{θJ-c}		5.0						

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBP2005S THRU GBP210S	B1	1.4	35	2100	4200	TUBE

Characteristics (Typical)

FIG1:Io-Tc Curve

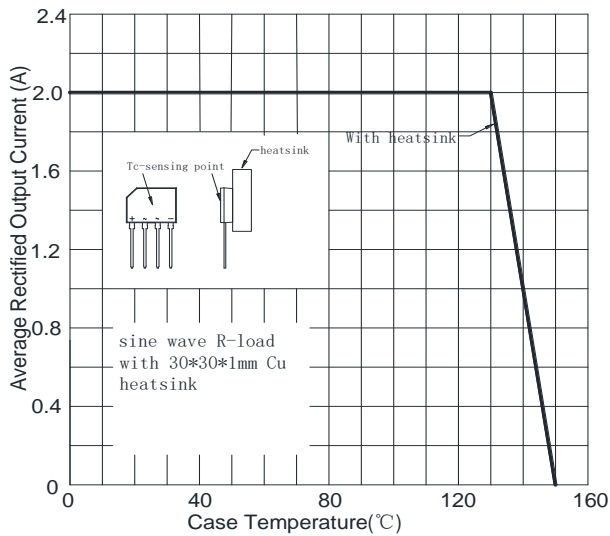


FIG2:Surge Forward Current Capability

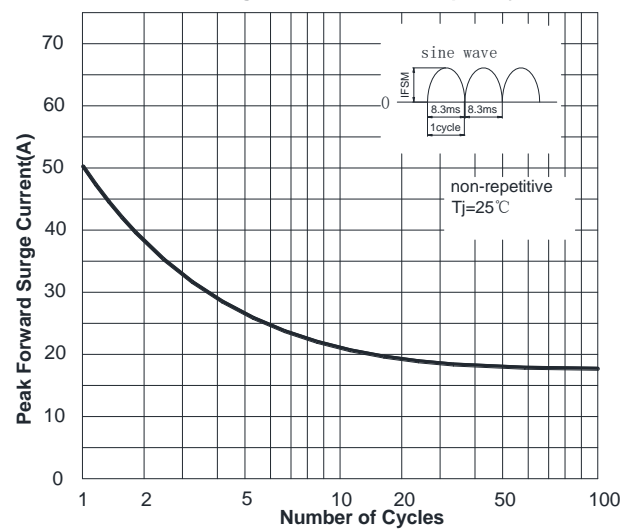


FIG3: Forward Voltage

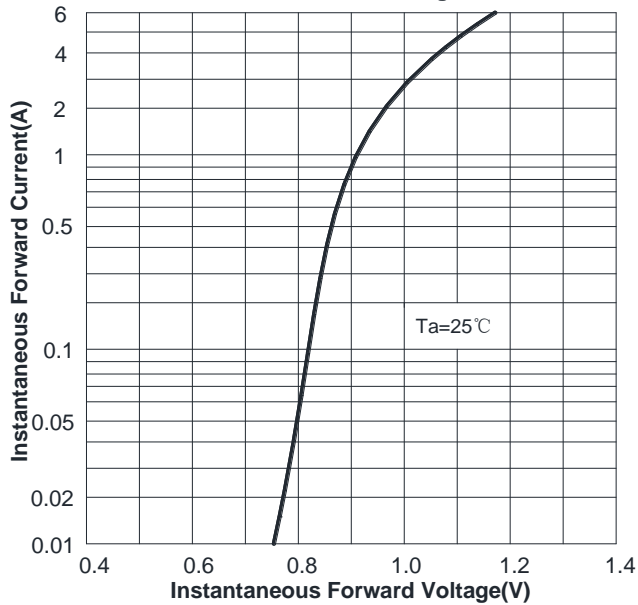
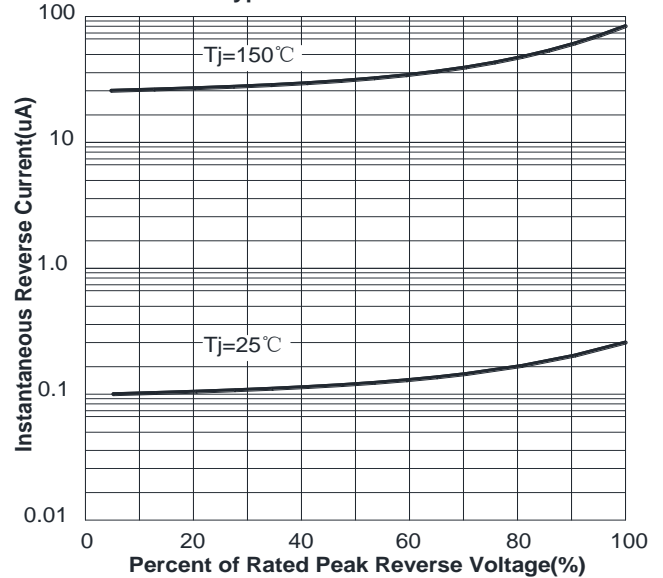
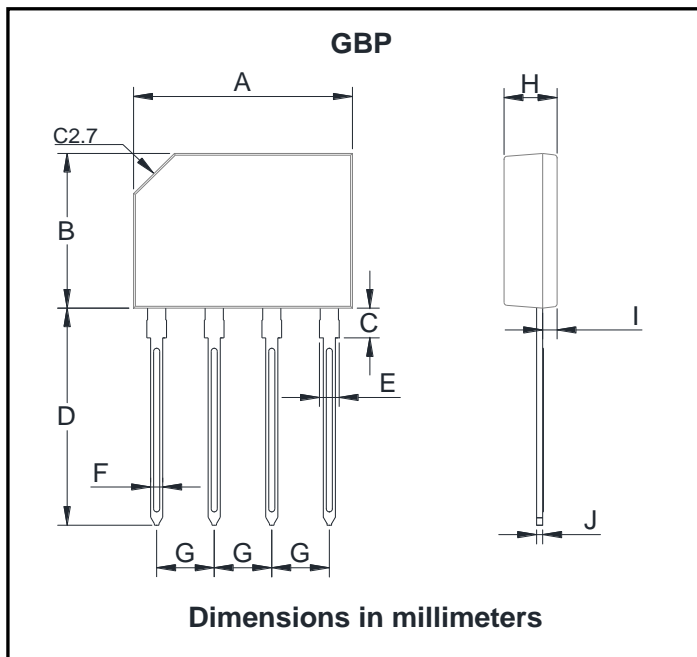


FIG4:Typical Reverse Characteristics



■ **Outline Dimensions**



GBP		
Dim	Min	Max
A	14.25	14.75
B	10.10	10.60
C	1.80	2.20
D	14.25	14.73
E	1.22	1.42
F	0.76	0.86
G	3.70	3.90
H	3.35	3.65
I	0.80	1.10
J	0.35	0.55

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