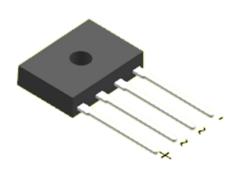




## **Bridge Rectifiers**

#### **GBP**



Primary characteristics					
I <sub>F(AV)</sub>	3A				
$V_{RRM}$	600V to 1000V				
I <sub>FSM</sub>	72A				
I <sub>RM</sub>	5uA				
V <sub>FM</sub> at I <sub>F</sub> =1.5A	1.05V				
T <sub>J</sub> max.	150 °C				

#### **Features**

- ROHS compliant
- Glass passivated chip
- High forward surge capability
- Meet MSL level 1, per J-STD-020 LF maximum peak of 250 °C
- Solder dip 260 °C / 40S
- Component in accordance to ROHS 2002/95/EC and WEEE 2002/96/WC
- UL recognition, file number E342874

### **Applications**

Ideal for ac-to-dc bridge full wave rectification suck as SMPS, home applianes, office equipment, indusrial automation applicatios

#### Mechanical data

- Case: GBP
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.
- Mounting Torque:10cm-kg(8.8 inches-lbs)max.
- Recommended Torque:5.7 cm-kg(5 inches-lbs)

## **Maximum rating** (Ta=25°C unless otherwise noted)

Parameter		C	GBP			11:4
Parameter	Sym		306	308	310	Unit
Max. repetitive peak reverse voltage		$V_{RRM}$	600	800	1000	V
Max. RMS reverse voltage		$V_{RMS}$	420	560	700	V
Max. DC blocking voltage		$V_{DC}$	600	800	1000	V
Max. average forward current		I <sub>F(AV)</sub>	3		Α	
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I <sub>FSM</sub>	72		А	
Rating for fusing,1ms≤ t≤8.3ms		l <sup>2</sup> t	35		A <sup>2</sup> S	
Max. instantaneous forward voltage drop per diode		$V_{FM}$	1.05(1.5A)		V	
Max. instantaneous reverse current at	Ta=25 °C		5			μA
rated DC blocking voltage	Ta=125 °C	I <sub>RM</sub>	500			μΑ
Operating junction temperature		TJ	-55 ~ +150		°C	
Storage temperature		T <sub>STG</sub>	-55 ~ +150		°C	
Typical thermal resistance (Note2)		R <sub>J-A</sub>	21		°C/W	
		R <sub>J-C</sub>	9			°C/W
Typical junction capacitance (Note1)		CJ	25			pF

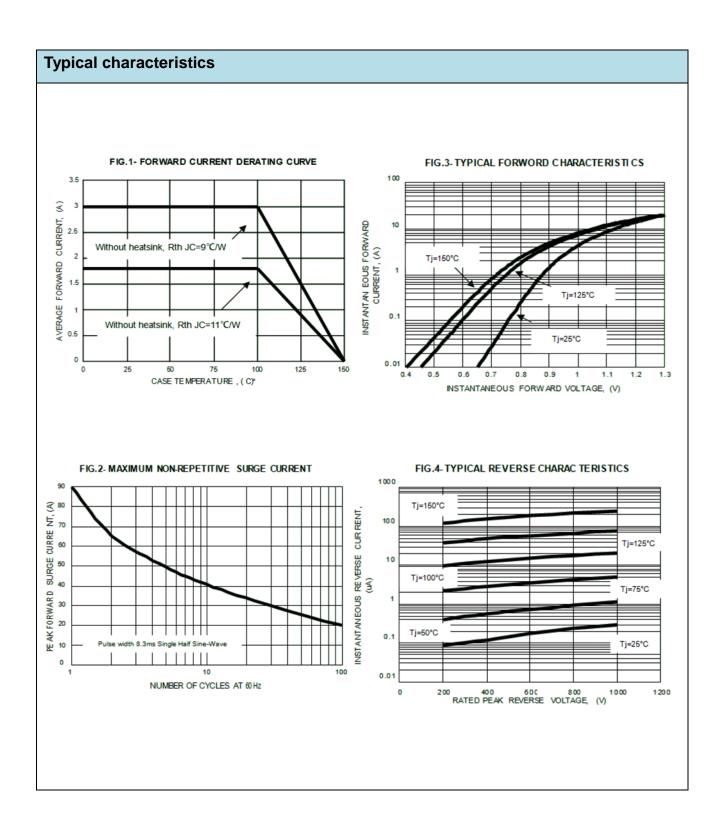
#### Notes

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- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (2) Device mounted on 30mm x 30mm x 1mm Cu Plate Heatsink

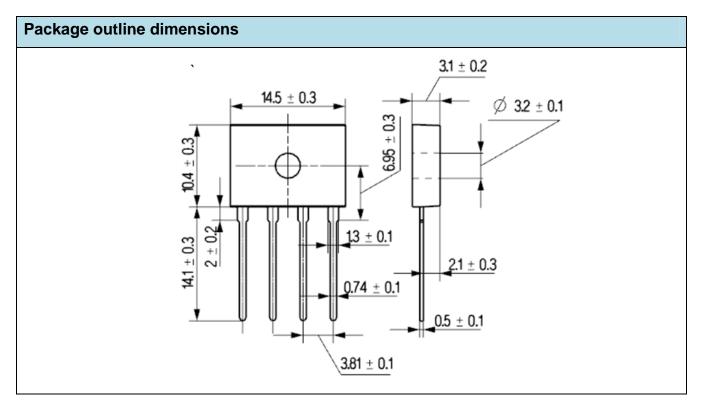


Ordering information (Example)					
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE	
GBP306					



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