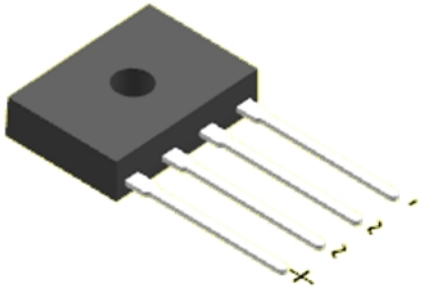
GBP



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

Primary characteristics

$I_{F(AV)}$	2A
V_{RRM}	600V to 1000V
I_{FSM}	65A
I_{RM}	5uA
V_{FM} at I_F=1A	1.05V
T_J max.	150 °C

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		Sym	GBP			Unit
			206	208	210	
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		$I_{F(AV)}$	2			A
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I_{FSM}	65			A
Rating for fusing,1ms≦ t≦8.3ms		I^2t	16			A^2S
Max. instantaneous forward voltage drop per diode		V_{FM}	1.05 (1A)			V
Max. instantaneous reverse current at rated DC blocking voltage	Ta=25 °C	I_{RM}	5			μA
	Ta=125 °C		500			μA
Operating junction temperature		T_J	-55 ~ +150			°C
Storage temperature		T_{STG}	-55 ~ +150			°C
Thermal resistance junction to cover (Note1)		$R_{\Theta J-C}$	3			°C/W
Typical junction capacitance (Note 2)		C_J	25			pF

Notes

(1) Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

Ordering information (Example)

PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
GBP206				

Typical characteristics

FIG.1- FORWARD CURRENT DERATING CURVE

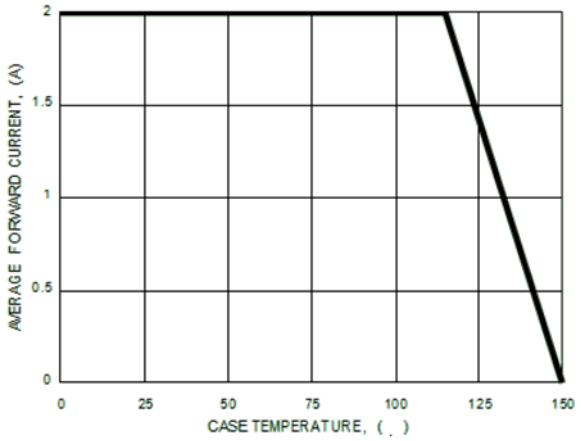


FIG.3- TYPICAL FORWORD CHARACTERISTICS

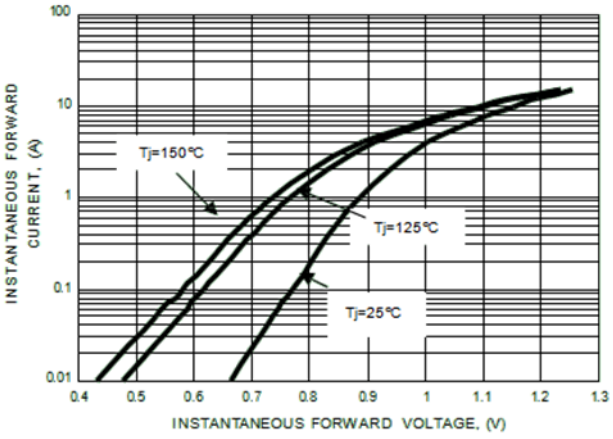


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

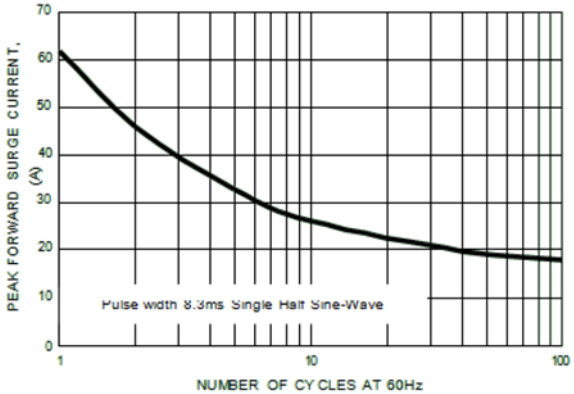
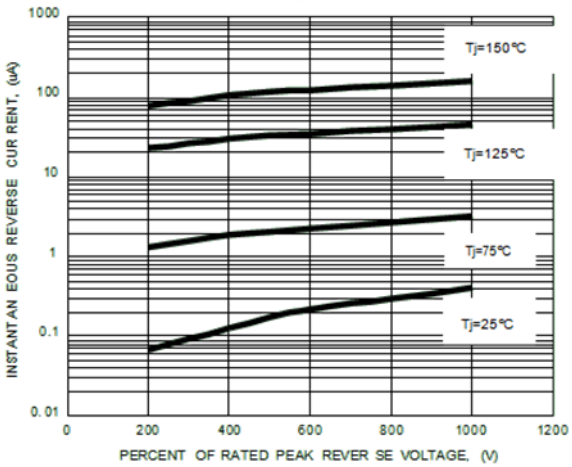
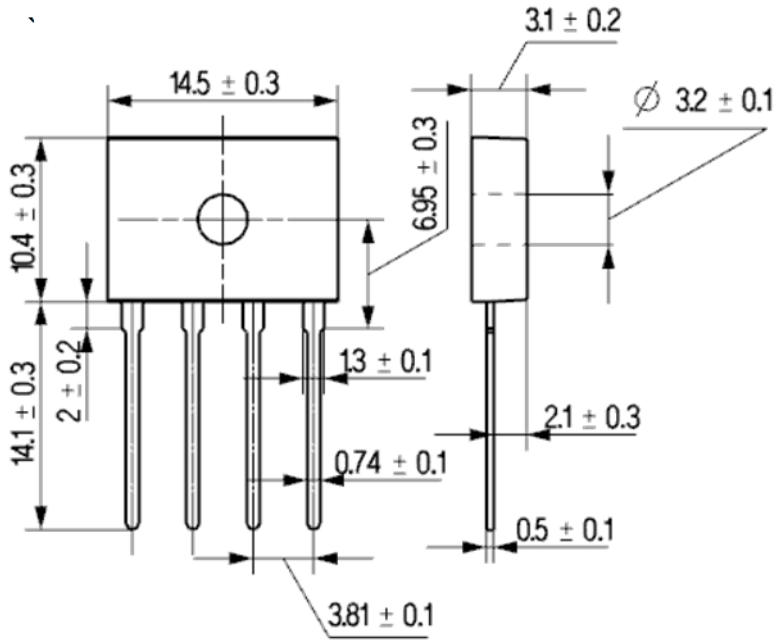


FIG.4- TYPICAL REVERSE CHARACTERISTIC S



Package outline dimensions



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