

GBU402 thru GBU410. Bridge Rectifiers

РB

<u>GBU</u>		
	- ~	

Primary characteristics				
I _{F(AV)}	4.0A			
V _{RRM}	200V to 1000V			
I _{FSM}	150A			
I _{RM}	5uA			
V _{FM} at I _F =4A	1.0V			
T_J max.	150 °C			

FeaturesROHS 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: GBU
- 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)

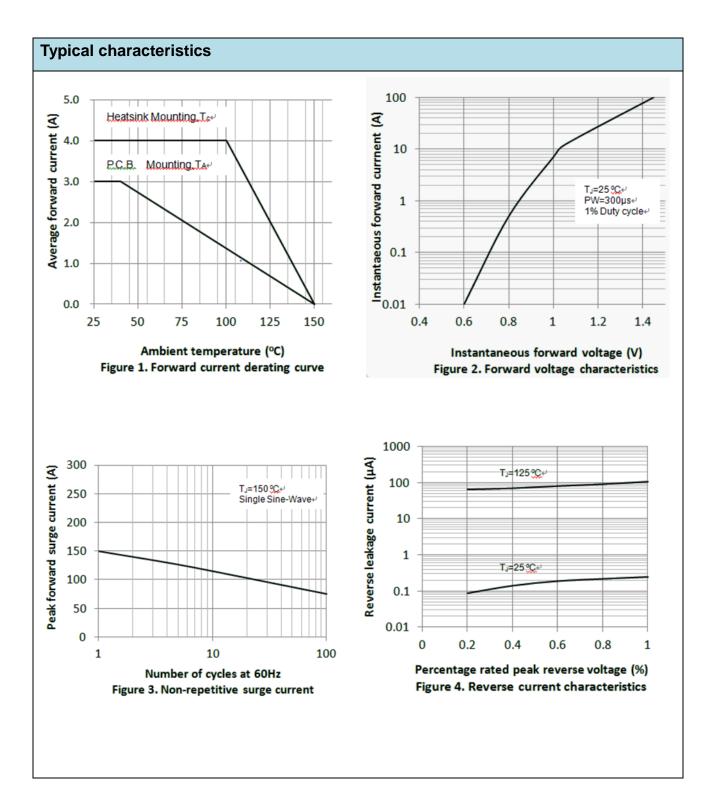
Parameter		C	GBU				11	
		Sym	402	404	406	408	410	Unit
Max. repetitive peak reverse voltage		V_{RRM}	200	400	600	800	1000	V
Max. RMS reverse voltage		V_{RMS}	140	280	420	560	700	V
Max. DC blocking voltage		V _{DC}	200	400	600	800	1000	V
Max. average forward current		I _{F(AV)}	4			Α		
Non-repetitive peak forward surge current			450			A		
8.3ms single half-sine-wave		I _{FSM}	150					
Rating for fusing,1ms \leq t \leq 8.3ms		l ² t	93			A ² S		
Max. instantaneous forward voltage drop per diode		V_{FM}	1.0(4A)			V		
Max. instantaneous reverse current at	Ta=25 ⁰C				5			μA
rated DC blocking voltage	Ta=125 ⁰C	I _{RM}	500					μA
Operating junction temperature		TJ		-5	5 ~ +1	50		°C
Storage temperature		T _{STG}		-5	5 ~ +1	50		°C
Typical thermal resistance (Note1)		R J-A	23		°C/W			
		R _{J-C}	5.5			°C/W		

Notes

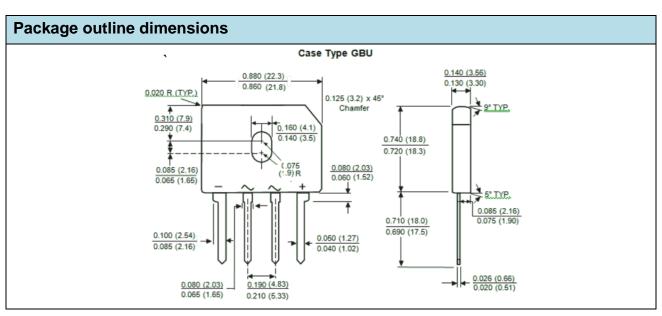
(1) Units mounted on PCB with 0.5" x 0.5" (12 mm x 12 mm) copper pads and 0.375" (9.5 mm) lead length



Ordering information (Example)						
PREFERRED	ED UNIT WEIGHT (g) PREFERRED PACKAGE CODE B		BASE QUANTITY	DELIVERY MODE		
GBU406	3.565	45	20	Tube		
GBU406	3.565	51	250	Paper tray		







Golden SEMI Inc. - Legal Notice

Disclaimer - All data and specifications are subject to changes without notice

GOLDEN SEMI Inc, it's affiliates, agents, distributors and employees neither accept nor assume any responsibility for errors or inaccuracies. All data and specifications are intended for information and provide a product description only. Electrical and mechanical parameters listed in GOLDEN SEMI data sheets and specifications will vary dependent upon application and environmental conditions . GOLDEN SEMI is not liable for any damages occurred or resulting from any circuit, product or end-use application for which it's products are used. GOLDEN SEMI products are not intended or designed for use in life saving or sustaining apparatus and purchase of any GOLDEN SEMI products automatically indemnifies GOLDEN SEMI against any claims or damages resulting from application malfunction