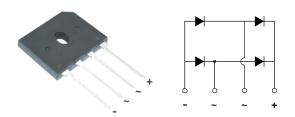




GBU



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)}	8.0A					
V_{RRM}	200V to 1000V					
I _{FSM}	200A					
I _{RM}	5uA					
V _{FM} at I _F =8A	1.0V					
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: 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)

N	lavimum	rating	(Ta=25°C	unlace	otherwise	noted)
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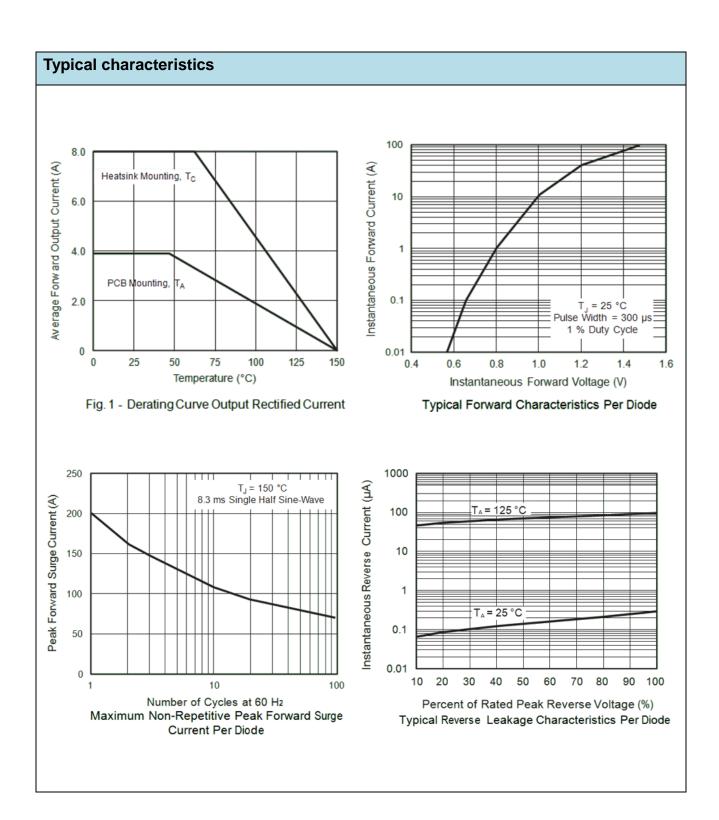
Devemeter		C	GBU					11:4
Parameter		Sym		804	806	808	810	Unit
Max. repetitive peak reverse voltage		V_{RRM}	200	400	600	800	1000	V
Max. RMS reverse voltage			140	280	420	560	700	V
Max. DC blocking voltage			200	400	600	800	1000	V
Max. average forward current			8					Α
Non-repetitive peak forward surge current 8.3ms single half-sine-wave			200				А	
Rating for fusing,1ms \leq t \leq 8.3ms			166				A ² S	
Max. instantaneous forward voltage drop per diode		V_{FM}	1.0 (8A)				V	
Max. instantaneous reverse current at	Ta=25 °C		I _{RM} 5 500			μΑ		
rated DC blocking voltage	Ta=125 °C	IRM				μΑ		
Operating junction temperature		TJ	-55 ~ + 150					°C
Storage temperature			-55 ~ +150				°C	
Thermal resistance junction to ambient (Note2)			21			°C/W		
Thermal resistance junction to cover (Note3)			4			°C/W		
Typical junction capacitance (Note1)		CJ	68				рF	

Notes

- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (2) Units mounted in free air, no heatsink on PCB, 0.5" x 0.5" (12 mm x 12 mm) copper pads, 0.375" (9.5 mm) lead length
- (3) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screws

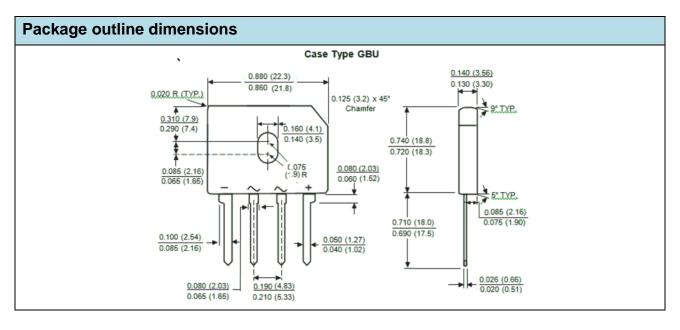


Ordering information (Example)							
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
GBU806	3.857	45	20	Tube			



Rev. A1 P2/3





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