

GBU602 thru GBU610. Bridge Rectifiers

РB

<u>GBU</u>		
	- ~	~ +

Primary characteristics				
I _{F(AV)}	6.0A			
V _{RRM}	200V to 1000V			
I _{FSM}	175A			
I _{RM}	5uA			
V _{FM} at I _F =6A	1.0V			
T_J max.	150 °C			

ROHS compliant

Features

- 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. // 100	GBU				11:::4	
		Sym	602	604	606	608	610	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)}	6				А	
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I _{FSM}	150			А		
Rating for fusing,1ms \leq t \leq 8.3ms		l ² t	127			A ² S		
Max. instantaneous forward voltage drop per diode		V _{FM}	1.0 (6A)			V		
Max. instantaneous reverse current at	Ta=25 ⁰C		5			μA		
rated DC blocking voltage	Ta=125 °C	I _{RM}	500					μA
Operating junction temperature		TJ	-55 ~ +150				°C	
Storage temperature		T _{STG}		-5	5 ~ +1	50		°C
Typical thermal resistance (Note2)		R J-A	21			°C/W		
		R _{J-C}	2.5			°C/W		
Typical junction capacitance (Note1)		CJ	68			pF		

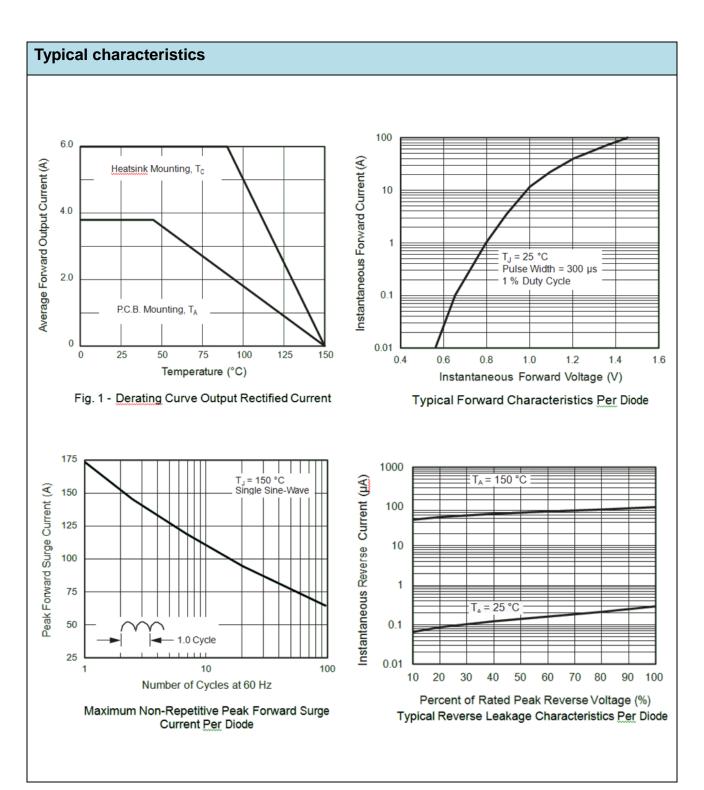
Notes

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

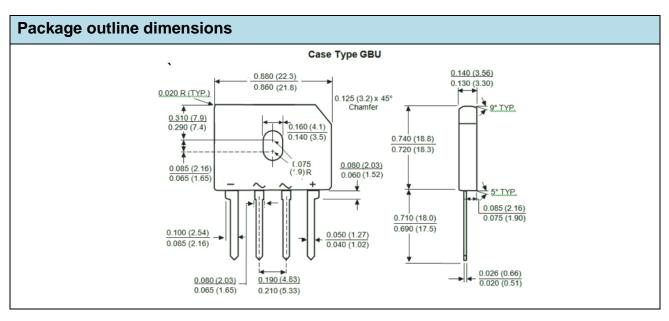
(2) Units mounted in free air, no heatsink on PCB, 0.5" x 0.5" (12 mm x 12 mm) copper pads, 0.375" (9.5 mm) lead length



Ordering information (Example)						
PREFERRED	UNIT WEIGHT (g) PREFERRED PACKAGE CODE BASE		BASE QUANTITY	DELIVERY MODE		
GBU606	3.857	45	20	Tube		
GBU606	3.857	51	250	Paper tray		







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