

GBU10V06 thru GBU10V08

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE – 600 to 800Volts FORWARD CURRENT – 10 Amperes

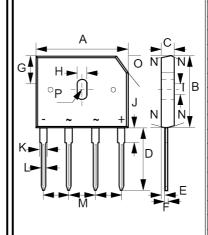
FEATURES

- Low forward voltage drop
- · Ideal for printed circuit board
- · High surge current capability

MECHANICAL DATA

- Case: GBU
- Case Material: Plastic material, UL flammability classification 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Lead free plating (Tin finish), Solderable per MIL-STD-202, Method 208
- Polarity indicator: As marked on the body
- Weight: 0.15 ounces, 4.0 grams
- Component in accordance to RoHs 2002/95/EC

<u>GBU</u>



GBU							
DIM.	MIN.	MAX.					
Α	21.80	22.30					
B C	18.30	18.80					
С	3.30	3.56					
D	17.50	18.00					
Е	0.76	1.00					
F	0.46	0.56					
G	7.40	7.90					
Н	3.50	4.10					
I	1.65	2.16					
J	2.25	2.75					
K	1.95	2.35					
L	1.02	1.27					
M	4.83	5.33					
N	7.0° TYPICAL						
0	3.2 x 45°						
Р	1.90 RADIUS						
All Dimensions in millimeter							

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

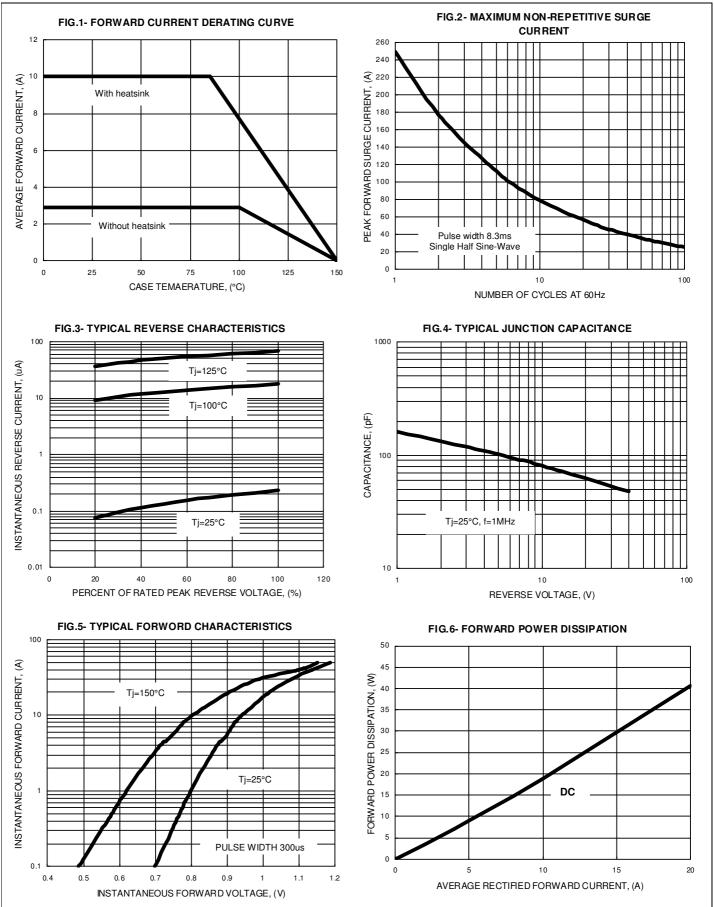
Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER				SYMBOL	GBU10V06	GBU	GBU10V08	
Device marking code				Note	GBU10V06	GBl	GBU10V08	
Maximum Repetitive Peak Reverse Voltage			V _{RRM}	600		800		
Average Rectified Outp	verage Rectified Output Current With heatsink, @T _C =85°C Without heatsink, @T _C =100°C			I _{F(av)}	10 2.9			А
Peak Forward Surge Current 8.3ms single half Tj=25°C sine-wave Tj=125°C			I _{FSM}	250 220			А	
Peak Forward Surge Current 1.0 ms single half Tj=25°C sine-wave Tj=125°C			I _{FSM}	500 450			А	
I ² t Rating for Fusing (t<8.3ms)			l ² t	260			A ² s	
Mounting Torque (Recommended torque: 0.5 N.m)			TOR	0.8			N.m	
Storage temperature range			T _{STG}	-55 to +150			°C	
Operating junction temperature range			TJ	-40 to +150			°C	
PARAMET	ER	TEST CO	NDITIONS	SYMBOL	Min.	Тур.	Max.	UNIT
Breakdown voltage	GBU10V06 GBU10V08	IR=5uA	Tj=25°C	V _B	600 800			V
Forward Voltage (1)		IF=5A	Tj=25°C Tj=125°C	V _F			0.92 0.85	V
Leakage Current		Rated VR	Tj=25°C Tj=125°C	I _R	 		5 500	uA
THERMAL CHARACTERISTIC			SYMBOL	Typical			UNIT	
Typical Thermal Resistance (Unit mounted on 150 mm x 150 mm x 2 mm Cu Plate Heatsink)			ReJC ReJL ReJa	2 4 10			°C/W	
Typical Thermal Resistance (Without heatsink)			ReJC ReJL ReJa	3 18 35			°C/W	
Note: (1) 300us Pulsa Width, 2% Duty Cycle					REV. 2. JUI -2016. KBI			D 111

Note: (1) 300us Pulse Width, 2% Duty Cycle.

REV. 2, JUL-2016, KBDJ11







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