

## GBU10V06 thru GBU10V08

#### **GLASS PASSIVATED BRIDGE RECTIFIERS**

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

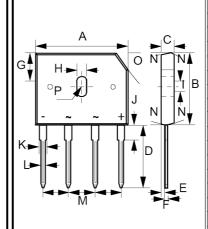
#### **FEATURES**

- 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

### **GBU**



GBU						
DIM.	MIN.	MAX.				
Α	21.80	22.30				
В	18.30	18.80				
С	3.30	3.56				
Δ	17.50	18.00				
Е	0.76	1.00				
F	0.46	0.56				
G	7.40	7.90				
Η	3.50	4.10				
1	1.65	2.16				
J	2.25	2.75				
K	1.95	2.35				
L	1.02	1.27				
М	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

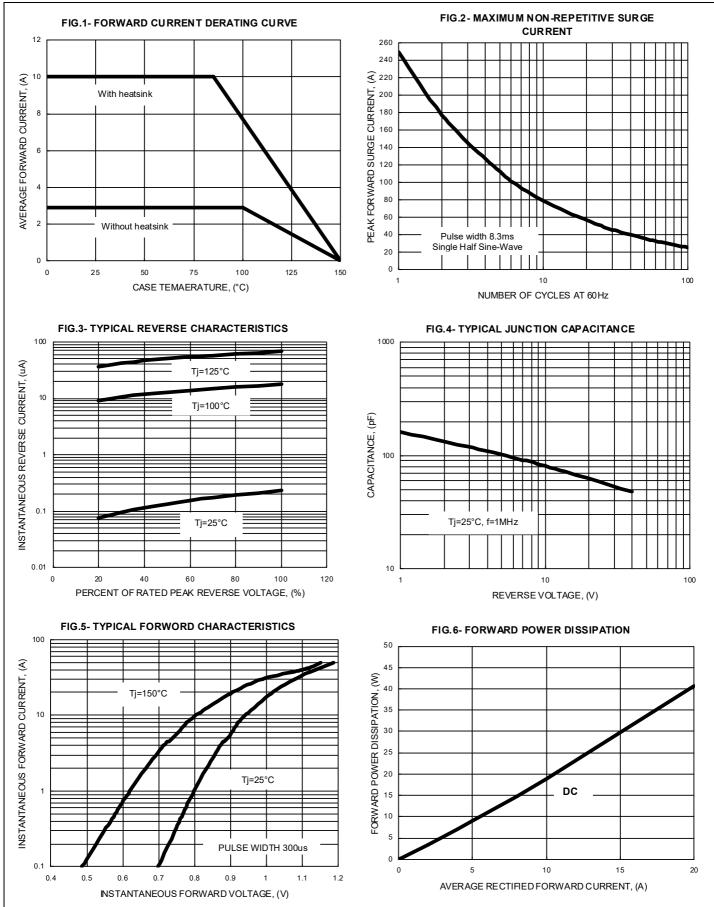
Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER			SYMBOL	GBU10V06	GBU	GBU10V08	
Device marking code			Note	GBU10V06	GBL	GBU10V08	
Maximum Repetitive Peak Reverse Voltage			VRRM	600	800		V
Average Rectified Output Current   With heatsink, @Tc=85°C   Without heatsink, @Tc=100°C			IF(av)	10 2.9			А
Peak Forward Surge Current 8.3ms single half Tj=25°C sine-wave Tj=125°C			IFSM	250 220			Α
Peak Forward Surge Current 1.0 ms single half Tj=25°C sine-wave Tj=125°C			IFSM	500 450			Α
I <sup>2</sup> t Rating for Fusing (t = 8.3ms)			I²t	260			A <sup>2</sup> s
Mounting Torque (Recommended torque: 0.5 N.m)			TOR	0.8			N.m
Storage temperature range			Tstg	-55 to +150			°C
Operating junction temperature range			TJ	-40 to +150			°C
PARAMETER	TEST CO	NDITIONS	SYMBOL	Min.	Тур.	Max.	UNIT
Breakdown voltage GBU10V06 GBU10V08	IR=5uA	Tj=25°C	VB	600 800			V
Forward Voltage (1)	IF=5A	Tj=25°C Tj=125°C	VF			0.92 0.85	V
Leakage Current	Rated VR	Tj=25°C Tj=125°C	IR			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)			R⊕JC R⊕JL R⊕Ja	2 4 10			°C/W
Typical Thermal Resistance (Without heatsink)			R⊕JC R⊕JL R⊕Ja	3 18 35			°C/W

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

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