



# GBU4005G THRU GBU410G

## GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

**VOLTAGE**

**50 to 1000 Volts**

**CURRENT**

**4.0Amperes**

**GBU**

Unit : inch (mm)

### FEATURES

- Plastic material used carries Underwriters Laboratory recognition 94V-O
- Low leakage
- Surge overload rating-- 30 amperes peak
- Ideal for printed circuit board
- Exceeds environmental standards of MIL-S-19500/228
- Lead free in comply with EU RoHS 2011/65/EU directives

### MECHANICAL DATA

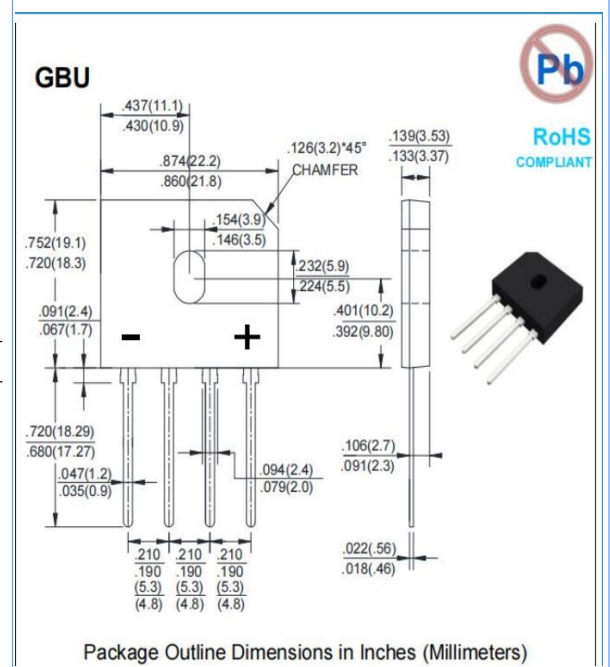
Case: Reliable low cost construction utilizing molded plastic technique results in inexpensive product

Terminals: Lead solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols molded or marking on body

Mounting Position: Any

Weight: 0.02 ounce, 0.4 gram



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings & Electrical Characteristics Ratings at 25 °C ambient temperature unless otherwise specified

	SYMBOLS	GBU 4005G	GBU 401G	GBU 402G	GBU 404G	GBU 406G	GBU 408G	GBU 410G	UNITS
最大可重复峰值反向电压 Maximum reoccurrent peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
工作电压 Working peak reverse voltage	VRMS	50	100	200	400	600	800	1000	Volts
均方根电压 Rms reverse voltage	VDC	35	70	140	280	420	560	700	Volts
正向平均整流电流 Average rectified Output current (Note 1)	I(AV)	4.0							Amp
正向峰值浪涌电流 8.3ms 单一正弦半波 Non-repetitive peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150							Amps
正向电压降 Forward voltage (per element)	VFM	1.05							Volts
额定直流阻断电压 Peak reverse current at rated DC blocking voltage	IR	5.0 500							μ A
典型结电容 Type junction capacitance per element (Note 3)	CJ	80							pF
典型热电阻 Typical thermal resistance junction to case (Note 1)	R θ JC	2.2							°C/W
工作温度和存储温度 Operating and storage temperature range	TJ,TSTG	-55 to + 150							°C

#### NOTES:

1. Unit mounted on 50mm x 50mm x 1.6mm copper plate heatsink.
2. Non-repetitive, for t > 1.0ms and < 8.3ms.
3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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## RATING AND CHARACTERISTIC OUTPUT

Fig. 1 Forward Current Derating Curve

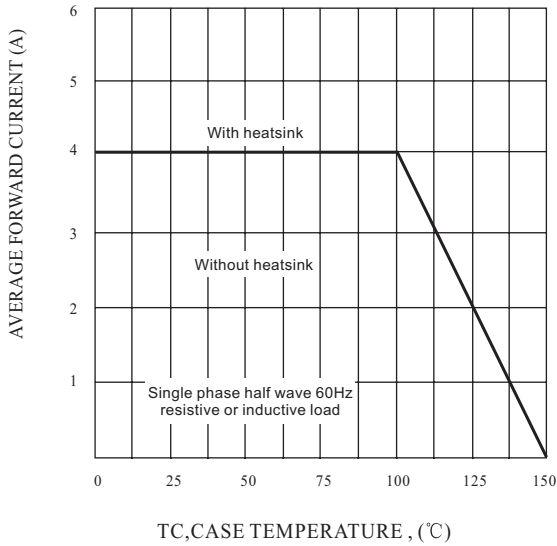


Fig. 3 Maximum Non-Repetitive Surge Current

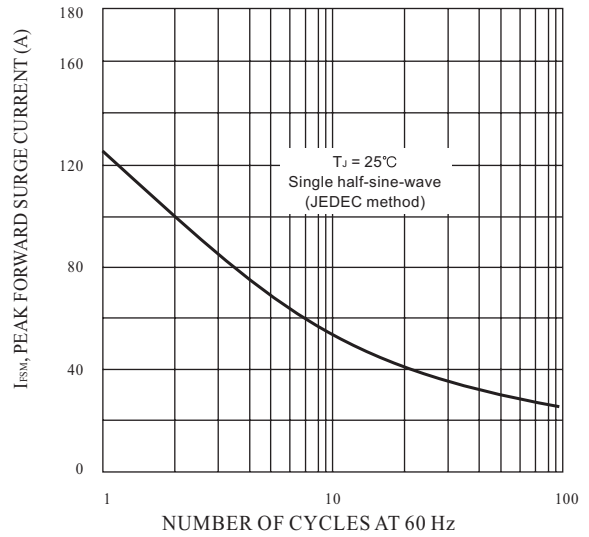


Fig. 2 Typical Fwd Characteristics

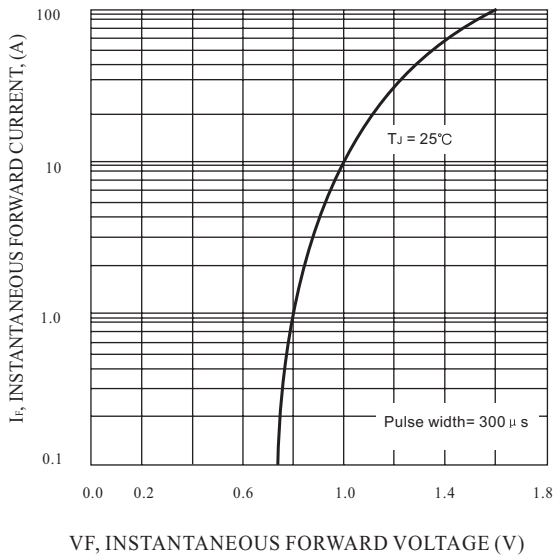


Fig. 4 Typical Junction Capacitance

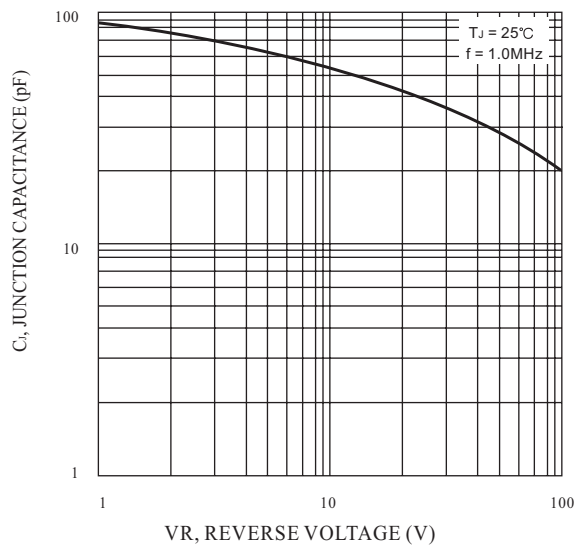


Fig. 5-TYPICAL REVERSE CHARACTERISTICS

