

GBU4A THRU GBU4M

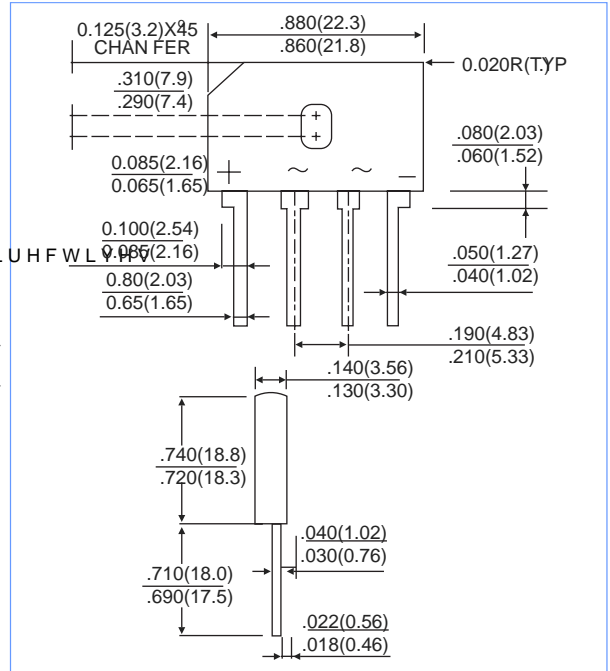
GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

50 to 1000 Volts	4 .0Amperes	GBU	Unit : inch (mm)
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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
- €/HDG IUHH LQ FRPSO\ ZLWK (8 5R+6 ‡

(8 GLUHF WL



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 4A	GBU 4B	GBU 4D	GBU 4G	GBU 4J	GBU 4K	GBU 4M	UNITS
最大可重复峰值反向电压 Maximum recurrent 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) $T_c=100^\circ\text{C}$	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)		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 $T_c=25^\circ\text{C}$ $T_c=100^\circ\text{C}$	IR	5.0 500							μA
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)	$R_{\theta JC}$	2.2							$^\circ\text{C/W}$
工作温度和存储温度 Operating and storage temperature range	TJ, TSTG	-55 to + 150							$^\circ\text{C}$

NOTES:

1. Unit mounted on 50mm x 50mm x 1.6mm copper plate heatsink.
2. Non-repetitive, for $t > 1.0\text{ms}$ and $< 8.3\text{ms}$.
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

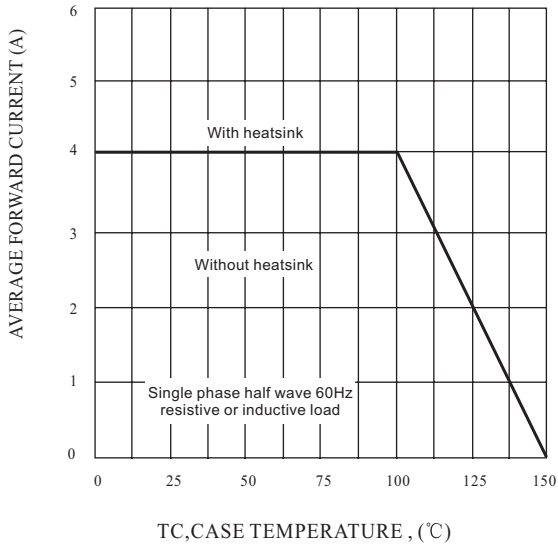


Fig. 2 Typical Fwd Characteristics

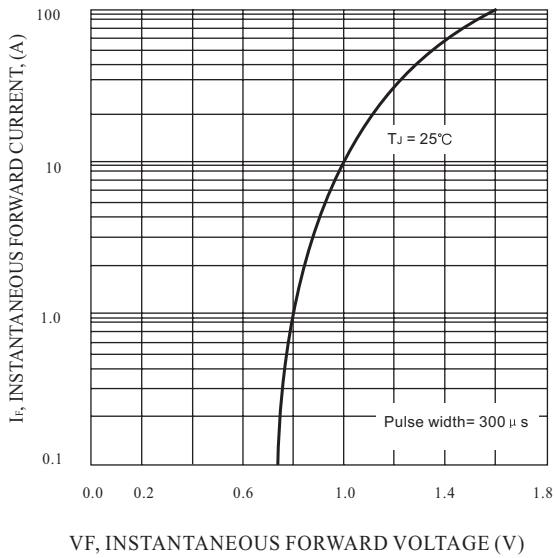


Fig. 5-TYPICAL REVERSE CHARACTERISTICS

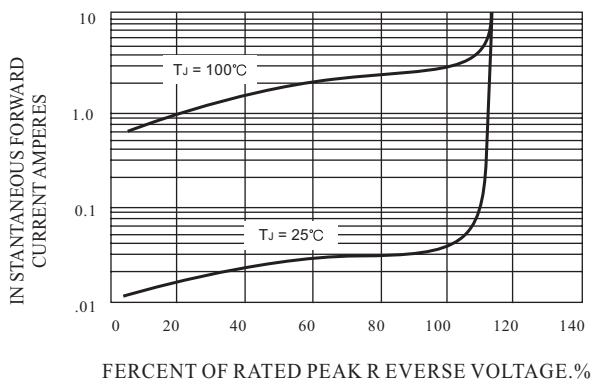


Fig. 3 Maximum Non-Repetitive Surge Current

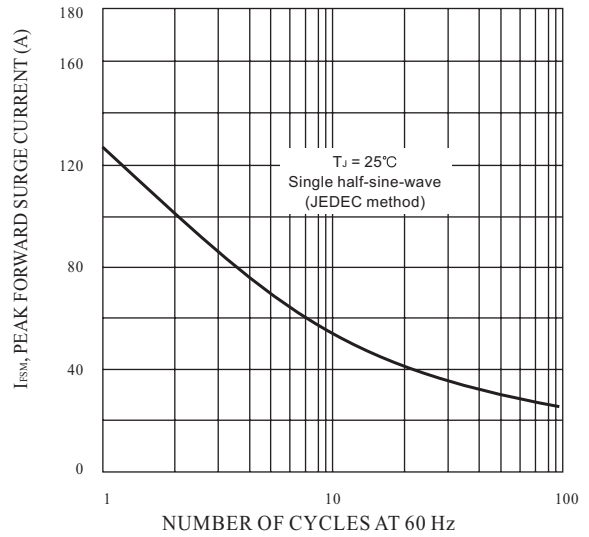


Fig. 4 Typical Junction Capacitance

