



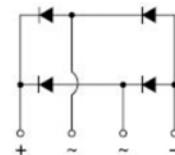
Features

- Ideal for P.C. Board mounting
- High surge current capability
- This series is UL listed under the Recognized Component Index, file number E142814
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- High temperature soldering guaranteed 265°C /10 seconds at 5 lbs (2.3kg) tension



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
HGBU8K	GBU	G8BUB8	500



Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	HGBU8K	Unit
Maximum repetitive peak reverse voltage	VR _{RM}	800	V
Maximum RMS bridge input voltage	VR _{MS}	560	V
Maximum DC blocking voltage	V _{DC}	800	V
Maximum average forward rectified output current at TA=100°C	IF(AV)	8.0	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IF _{SM}	200	A
Rating for fusing (t<8.3ms)	I ² t	166	A ² sec
Typical thermal resistance per element(1)	ReJA	2.2	°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-55 to + 150	°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz. For Capacitive load derate by 20 %.

Parameter	Symbol	HGBU8K	Unit
Maximum instantaneous forward voltage drop per leg at 8.0A	VF	1.1	V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR	5.0 500	μA

Notes: (1)Thermal resistance from Junction to Ambient on P.C.board mounting.



Rating and Characteristic Curves(TA=25°C Unless otherwise noted)

Fig. 1 Derating Curve for
Output Rectified Current

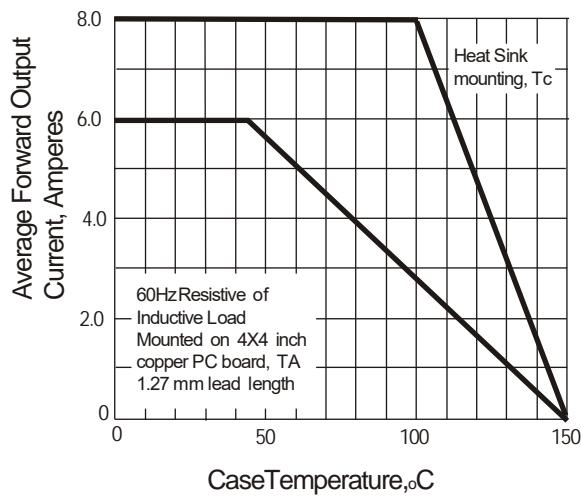


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

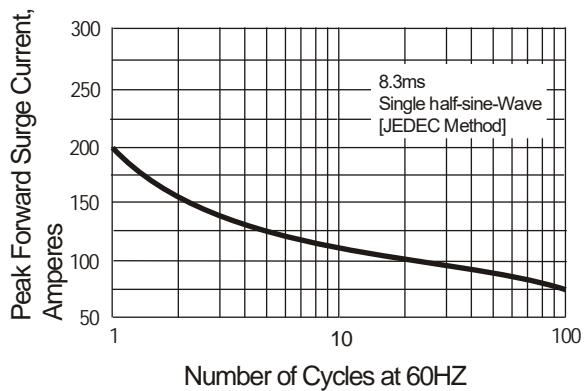


Fig. 3 Typical Instantaneous Forward Characteristics

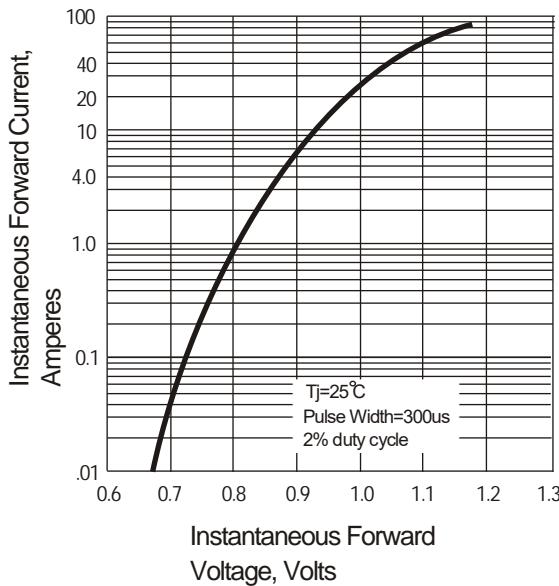


Fig. 4 Typical Reverse Characteristics

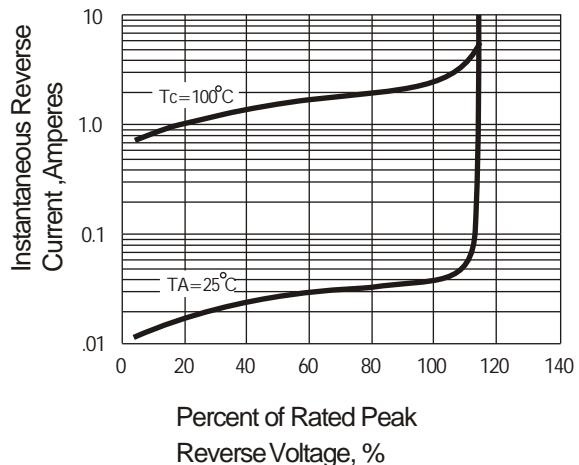
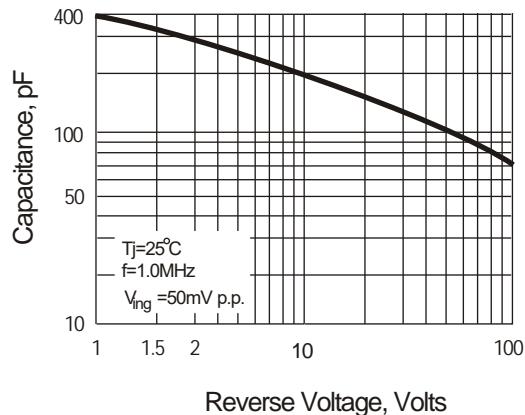


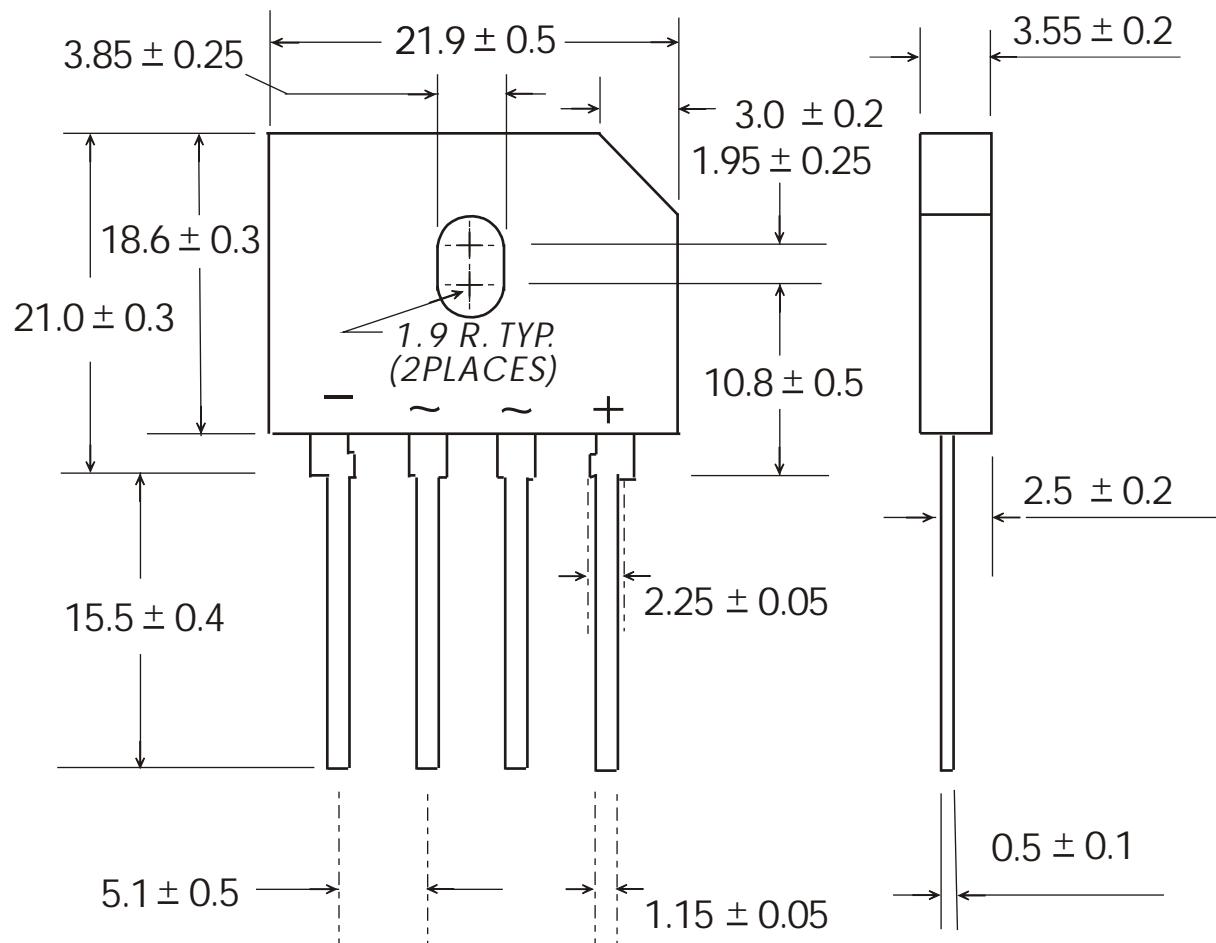
Fig. 5 Typical Junction Capacitance





Package Outline Dimensions

GBU





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