

GBU8A THRU GBU8M

GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 8.0A

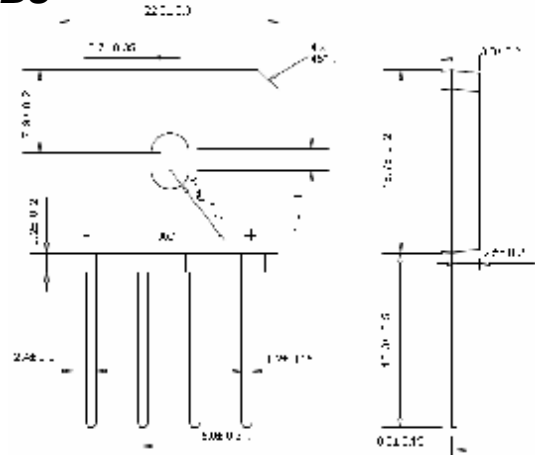
FEATURES

- Low leakage
- Low forward voltage
- Surge overload ratings-200 Amperes

MECHANICAL DATA

- **Case:** Molded plastic
- **Epoxy:** UL 94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** Symbols molded or marked on body
- **Mounting position:** Any
- **Weight:** 6.6 grams

GBU



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	SYMBOL	GBU8A	GBU8B	GBU8D	GBU8G	GBU8J	GBU8K	GBU8M	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward rectified Output Current at $T_C=100^\circ\text{C}$	I_o	8.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	200							A
Maximum Forward Voltage Drop per element at 4.0 A DC	V_F	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	@ $T_A=25^\circ\text{C}$	5.0							μA
	@ $T_A=125^\circ\text{C}$	500							
I^2t Rating for Fusing ($t<8.3\text{ms}$)	I^2t	240							A^2S
Typical Junction Capacitance per Element(Note 1)	C_J	60							pF
Typical Thermal Resistance, Junction to Case (Note 2)	$R_{\theta JA}$	2.7							$^\circ\text{C/W}$

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to case per element. Unit mounted on 150 x 150 x 1.6mm copper plate heat sink.