GBU6A THRU GBU6K

GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE：50-800V **CURRENT：6.0A**

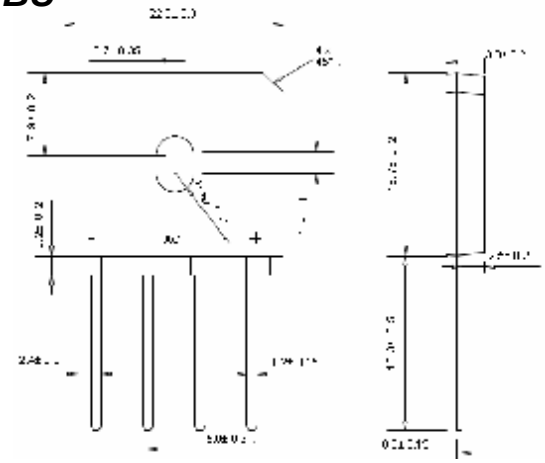
FEATURES

- Low leakage
- Low forward voltage
- Surge overload ratings-175 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 ELECTRONICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz,resistive or inductive load.
For capacitive load, derate current by 20%.

		SYMBOL	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	V
Maximum RMS Bridge Input Voltage		V_{RMS}	35	70	140	280	420	560	V
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	V
Maximum Average Forward rectified Output Current at T_C=75°C		I_o	6.0						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)		I_{FSM}	175						A
Maximum Forward Voltage Drop per element at 3.0 A DC		V_F	1.0						V
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	@ T_A=25°C	I_R	5.0						μA
	@ T_A=125°C		500						
I^2t Rating for Fusing (t<8.3ms)		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						°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.