

GBJ10005 THRU GBJ1010

GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE: 50-1000V

CURRENT: 10.0A

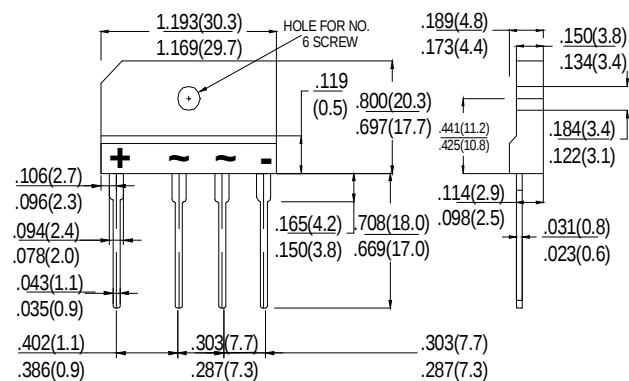
FEATURES

- Low leakage
- Low forward voltage
- Surge overload ratings-170 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:** Thru hole for 6# screw
- **Weight:** 6.6 grams

GBJ



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	GBJ 10005	GBJ 1001	GBJ 1002	GBJ 1004	GBJ 1006	GBJ 1008	GBJ 1010	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 $T_C=100^{\circ}C$		I_o	10							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)		I_{FSM}	170							A
Maximum Forward Voltage Drop per element at 5.0A DC		V_F	1.05							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	@ $T_A=25^{\circ}C$	I_R	10							μA
	@ $T_A=125^{\circ}C$		500							
I^2t Rating for Fusing ($t<8.3ms$)		I^2t	120							A^2S_{ec}
Typical Junction Capacitance per Element(Note 1)		C_J	55							pF
Typical Thermal Resistance, Junction to Case (Note 2)		$R_{\theta JA}$	1.4							$^{\circ}C/W$

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.