

GBU4005~GBU410**Single Phase 4.0Amp Glass passivated Bridge Rectifiers****Features**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Idea for printed circuit board
- ◆ Glass passivated Junction chip
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 250°C/10 seconds at terminals

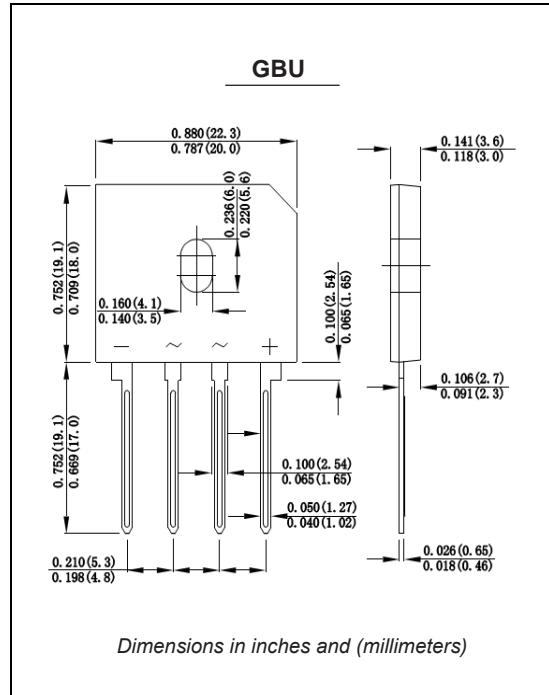
Mechanical Data

Case: Molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbol marking on body

Mounting Position: Any

**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 current derate by 20%.

	SYMBOLS	GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at T _L =50°C	I _(AV)					4.0			Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					120			Amps
Maximum instantaneous forward voltage at 2.0A	V _F				1.1				Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =125°C	I _R				5.0	500			uA
Typical junction capacitance (Note 1)	C _J				25.0				pF
Typical thermal resistance (Note 2)	R _{QJA}				16				°C/W
Operating junction and storage temperature range	T _{J,T_{STG}}				-50 to +150				°C

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Mounted on PCB with 12*12mm copper pad

Ratings And Characteristic Curves

GBU4005 THRU GBU410

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

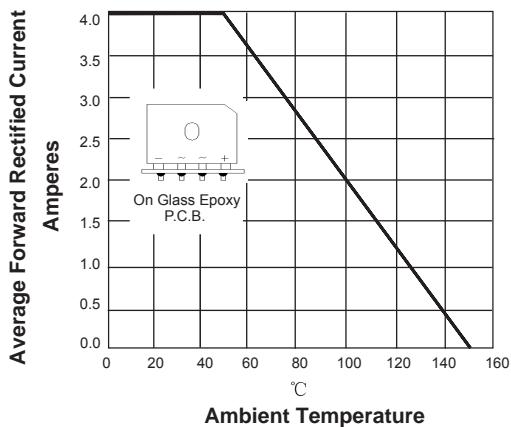


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

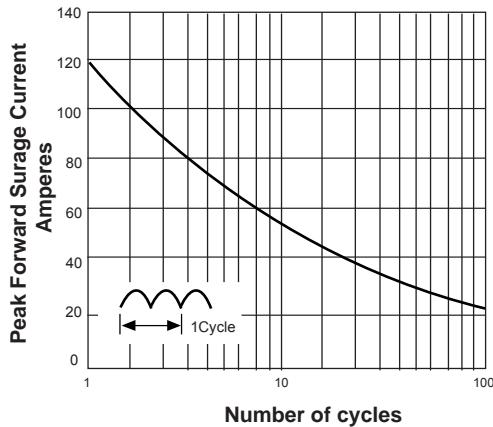


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

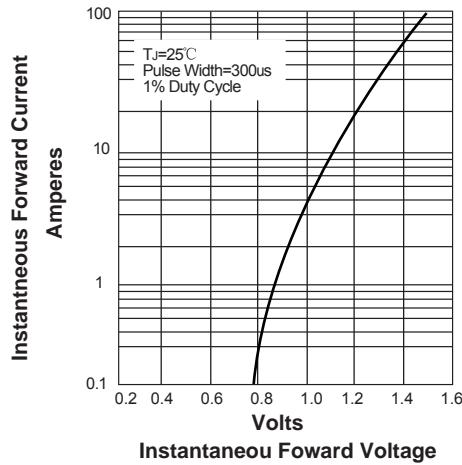


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

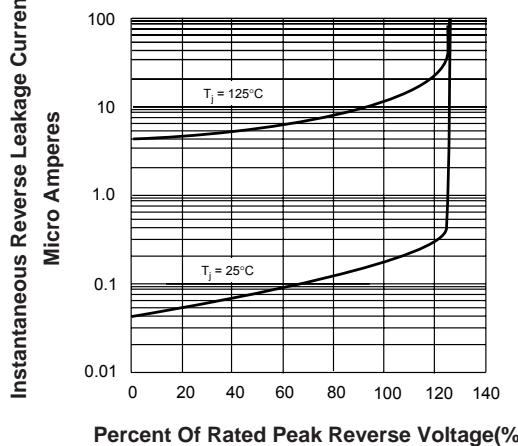


FIG. 5-TYPICAL JUNCTION CAPACITANCE

