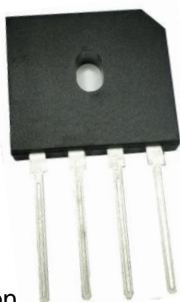


## 4.0A Single-Phase GLass Passivated Bridge Rectifiers

Recifier Reverse Voltage 50V to 1000V



### GBU

### Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 150 amperes peak
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265°C/10

### Mechanical Data

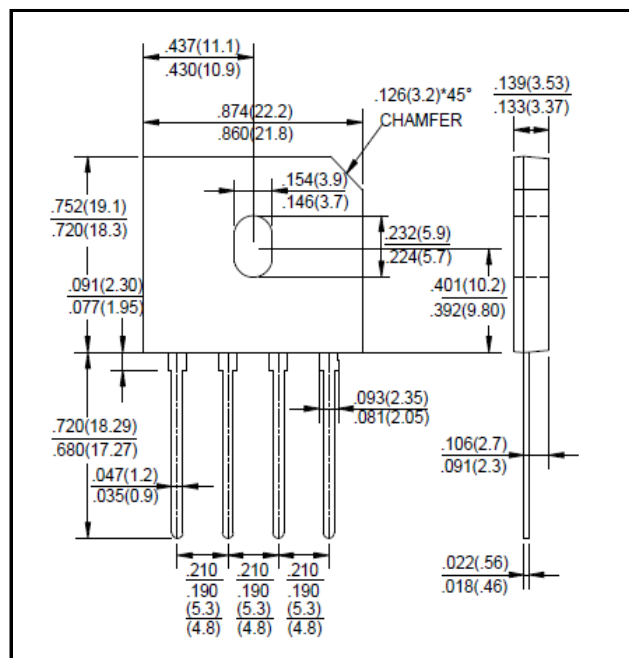
Case: Molded plastic

Terminals: Plate leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols molded or Marked on body

Mounting Position: Any

Weight: 0.138ounce, 3.9 grams (approx)



### Maximum Ratings & Thermal Characteristics

Dimensions in inches and (millimeters)

Rating at 25°C ambient temperature unless otherwise specified, Resistive or inductive load, 60HZ.

For Capacitive load derate current by 20%

Parameter	Symbol	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at TA=40°C	IF(AV)	4.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	135							A
Rating for fusing (t<8.3ms)	I <sup>2</sup> t	75.6							A <sup>2</sup> sec
Typical thermal resistance per element(1)	ReJA	2.2							°C/w
Mounting torque (Suggests 0.45~0.65)	Tor	Rating Torque: 0.8 (Suggests 0.45~0.65)							N.m
Typical thermal resistance per element(2)	Cj	45.0							PF
Operating junction and storage temperature range	TJ, TSTG	-55to+150							°C

### Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or inductive load, 60HZ.

For Capacitive load derate current by 20%

Parameter	Symbol	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410	unit
Maximum instantaneous forward voltage drop per leg at 4.0A	VF	1.1							V
Maximum DC reverse current at rated TA=25°C	IR	5							UA
DC blocking voltage per element TA=125°C		500							

Notes: (1) Device mounted on 50mm\*50mm\*1.6mm Cu plate heatsink.

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts.

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

FIG.1-DERATING CURVE FOR

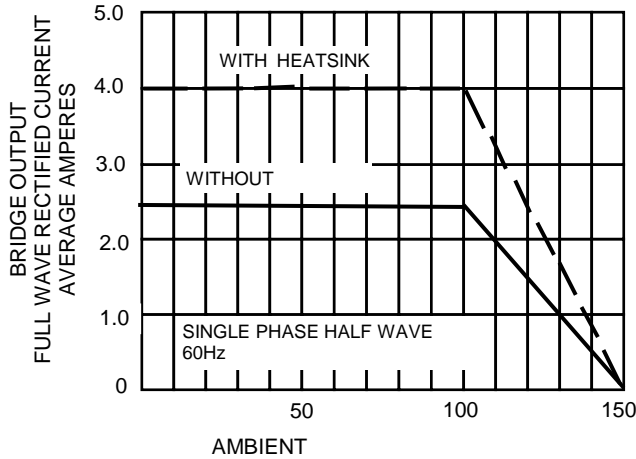


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

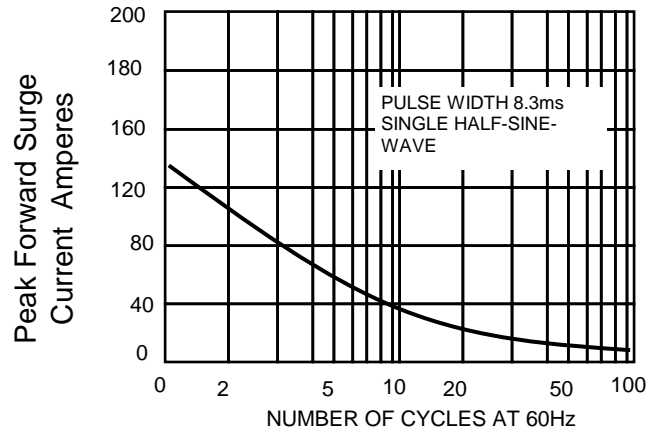


FIG.3-TYPICAL JUNCTION

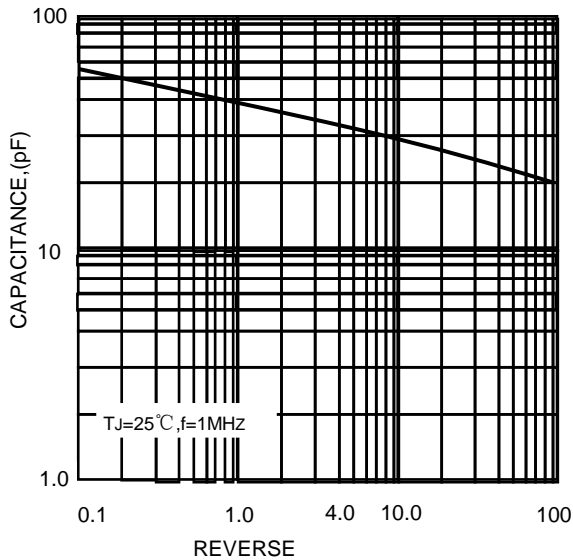


FIG.4-TYPICAL FORWARD CHARACTERISTICS

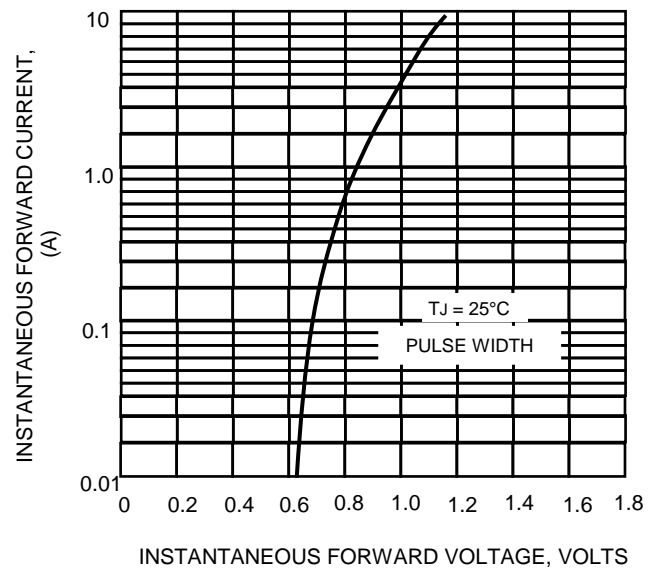
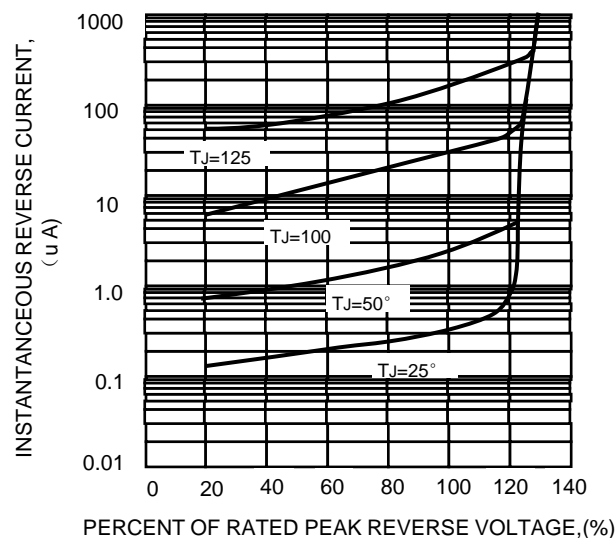


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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