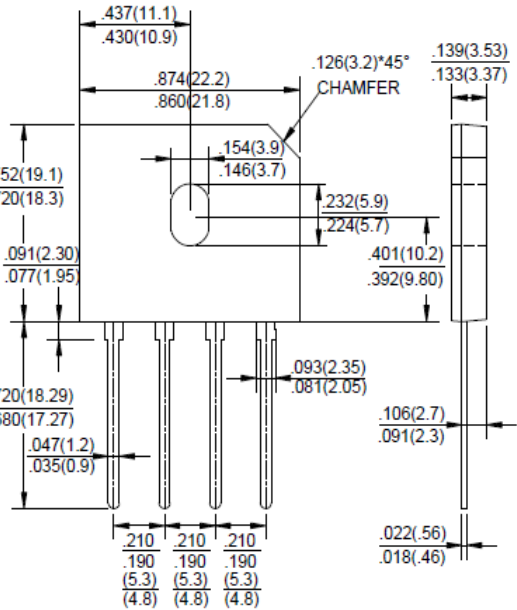


Recifier Reverse Voltage 50V to 1000V

### GBU



### Features

- Glass passivated junction
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 200 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	GBU 20005	GBU 2001	GBU 2002	GBU 2004	GBU 2006	GBU 2008	GBU 2010	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)	20.0								A
		3.5								A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	250								A
Rating for fusing (t<8.3ms)	I <sup>2</sup> t	201								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	60.0								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	GBU 20005	GBU 2001	GBU 2002	GBU 2004	GBU 2006	GBU 2008	GBU 2010	unit	
Maximum instantaneous forward voltage drop per leg at 10.0A	VF	1.1								V
Maximum DC reverse current at rated TA=25°C	IR	5								UA
DC blocking voltage per element TA=125°C		100								

Notes: (1) Device mounted on 75mm\*75mm\*1.6mm Cu plate heatsink.  
 (2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts.



# GBU20005 thru GBU2010

## 20.0A Single-Phase GLass Passivated Bridge Rectifiers



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

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

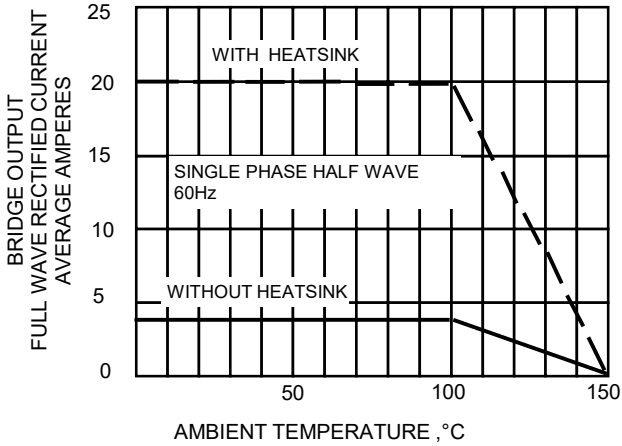


FIG.2-MAXIMUM NON-REPETITIVE SURNGE CURRENT

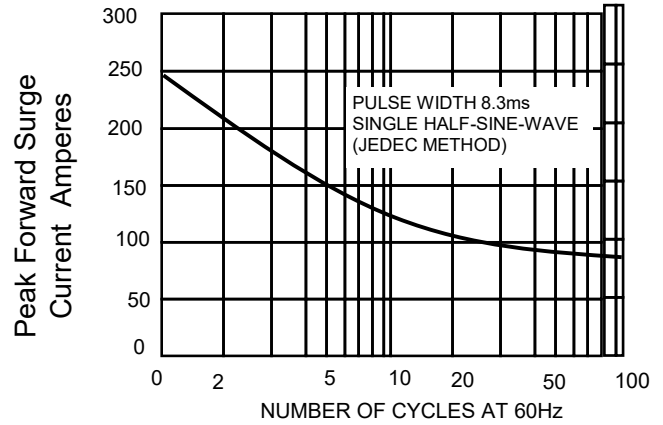


FIG.3-TYPICAL JUNCTION CAPACITANCE

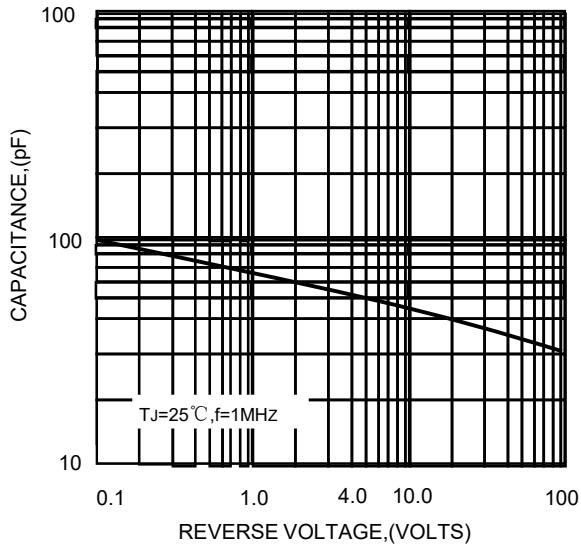


FIG.4-TYPICAL FORWARD CHARACTERISTICS

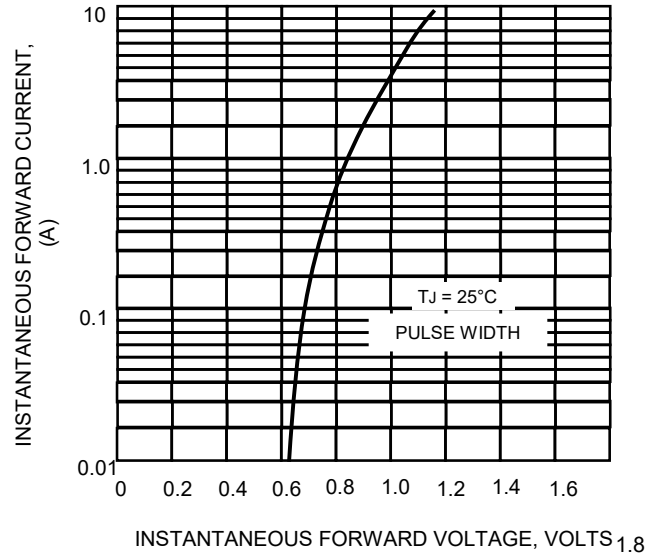
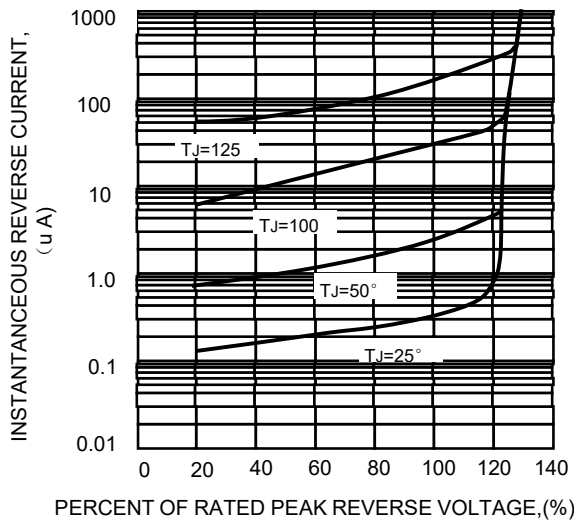


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Device	Package	Shipping
GBU20005-GBU2010	GBU	500 Units/Box