

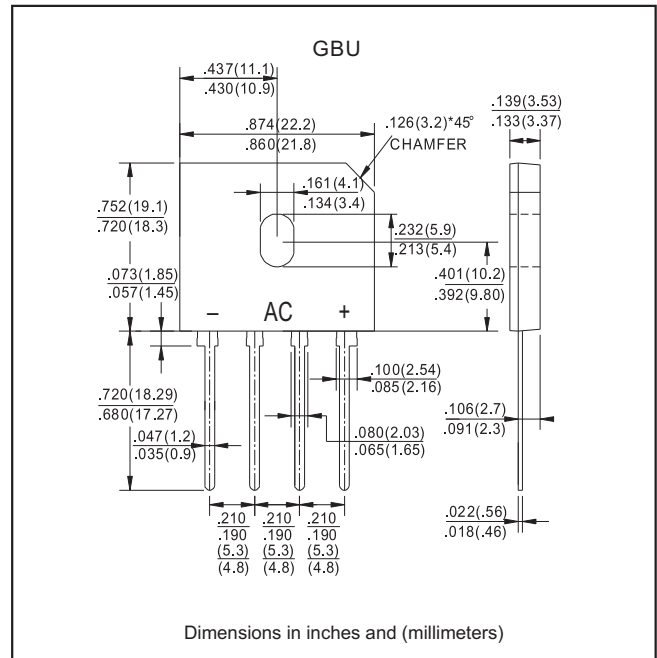
### Features

- Recommended for non-automatic applications.
- Ideal for & save space on printed circuit board.
- Applicable for automatic insertion.
- Reliable low cost construction utilizing molded plastic technology results in inexpensive product.
- Glass passivated chip junctions.
- Lead-free parts meet RoHS requirements.
- Suffix "-H" indicates Halogen free parts.

### Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, GBU
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : marked on body
- Mounting Position : Any

### Package outline

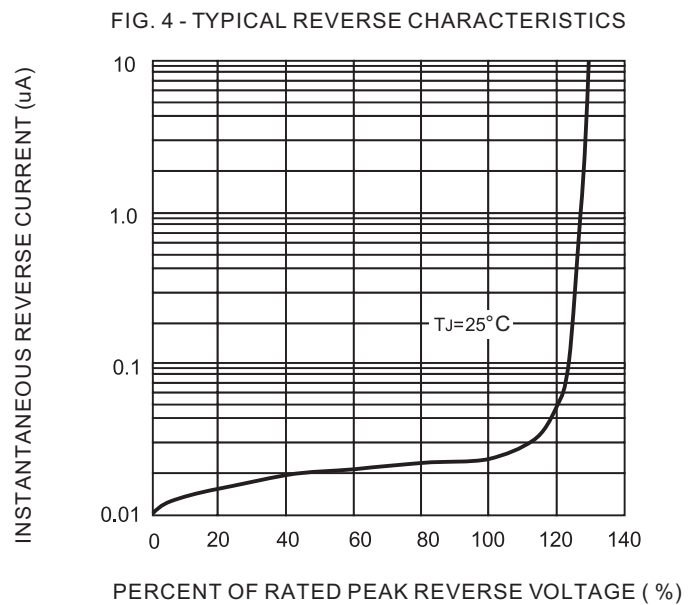
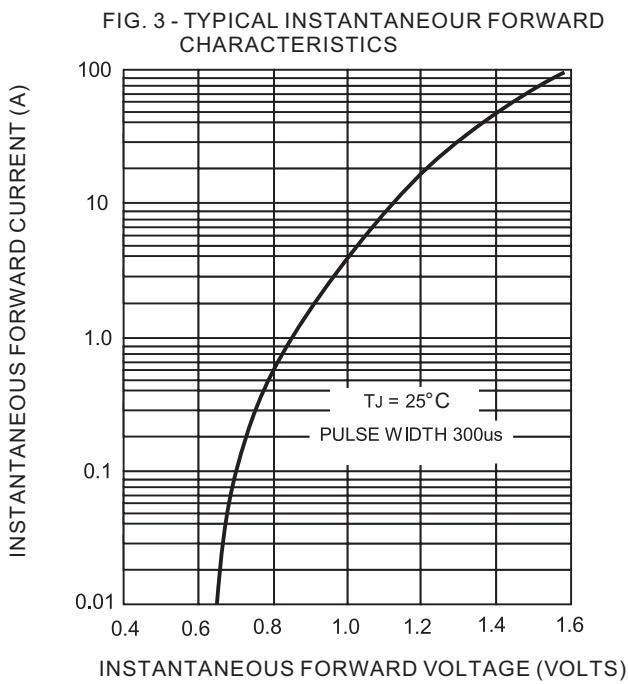
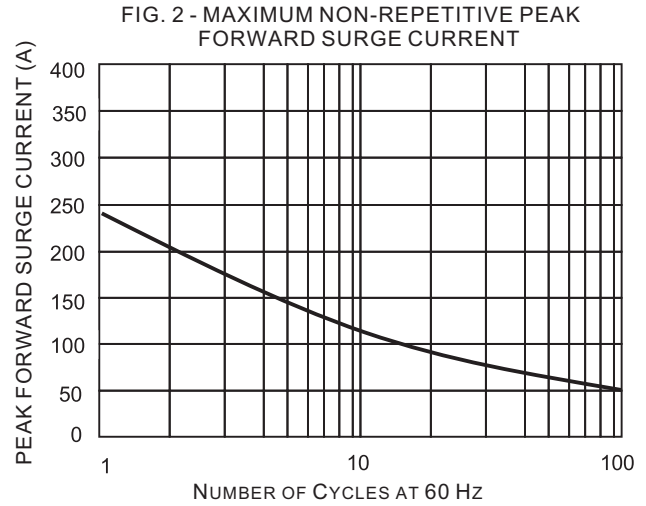
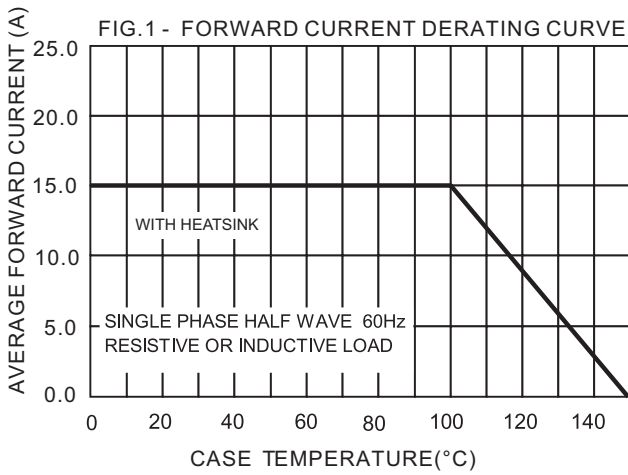


### Maximum ratings and Electrical Characteristics (AT T<sub>A</sub>=25°C unless otherwise noted)

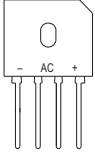
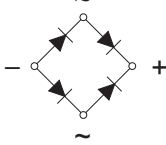
TYPE NUMBER	SYMBOL	GBU 15005	GBU 1501	GBU 1502	GBU 1504	GBU 1506	GBU 1508	GBU 1510	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>								V
Working Peak Reverse Voltage	V <sub>RWM</sub>	50	100	200	400	600	800	1000	
DC Blocking Voltage	V <sub>DC</sub>								
RMS Reverse Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T <sub>c</sub> =90°C	I <sub>F(AV)</sub>	15.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	240							A
Forward Voltage per element @I <sub>F</sub> =7.5A @I <sub>F</sub> =15.0A	V <sub>FM</sub>	1.1 1.2							V
Peak Reverse Current At Rated DC Blocking Voltage @T <sub>J</sub> =25°C T <sub>J</sub> =125°C	I <sub>R</sub>	5.0 200							uA
I <sup>2</sup> t Rating for fusing (t <8.3ms)	I <sup>2</sup> t	239							A <sup>2</sup> s
Dielectric Strength	V <sub>ids</sub>	2500							V
The proposed installation torque Max torque	Tor	5.0 8.0							Kgf.cm
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	72							pF
Typical Thermal Resistance	R <sub>θJA</sub>	22							°C/W
	R <sub>θJC</sub>	4.0							
	R <sub>θJL</sub>	5.0							
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150							°C

Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.  
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

**Rating and characteristic curves**



**Pinning information**

Simplified outline	Symbol
	

**Marking**

Type number	Marking code
GBU15005	GBU15005
GBU1501	GBU1501
GBU1502	GBU1502
GBU1504	GBU1504
GBU1506	GBU1506
GBU1508	GBU1508
GBU1510	GBU1510

**Suggested thermal profiles for soldering processes**

- 1.Storage environment: Temperature=5°C~40°C Humidity=55%±25%
- 2.Reflow soldering of surface-mount devices



3.Reflow soldering

Profile Feature	Soldering Condition
Average ramp-up rate(TL to TP)	<3°C/sec
Preheat -Temperature Min(Tsmmin) -Temperature Max(Tsmmax) -Time(min to max)(tS)	150°C 200°C 60~120sec
Tsmmax to TL -Ramp-upRate	<3°C/sec
Time maintained above: -Temperature(TL) -Time(tL)	217°C 60~260sec
Peak Temperature(TP)	255°C-0/+5°C
Time within 5°C of actual Peak Temperature(tp)	10~30sec
Ramp-down Rate	<6°C/sec
Time 25°C to Peak Temperature	<6minutes

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