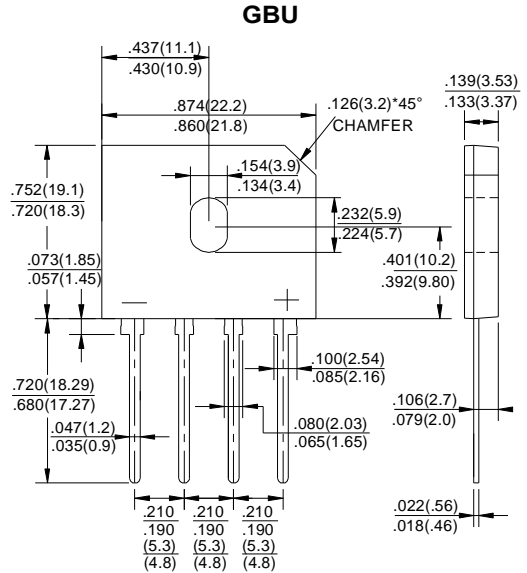


**GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER**
**FEATURES**

- ◆ Surge overload rating -250 amperes peak
- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ Plastic material has U/L flammability classification 94V-0
- ◆ Mounting position: Any


**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

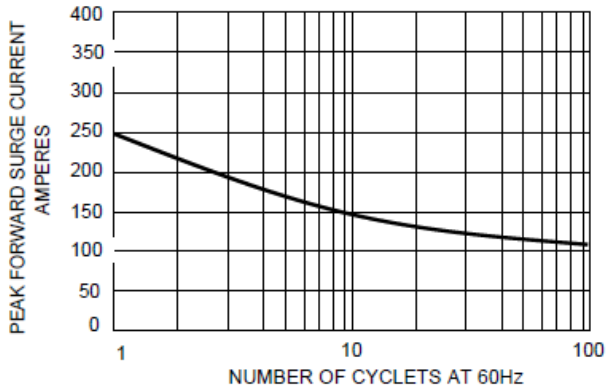
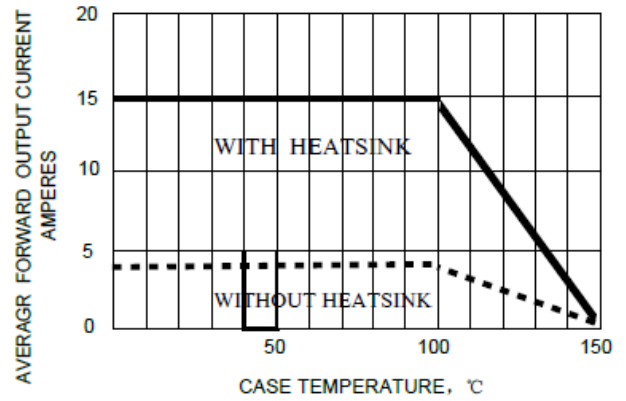
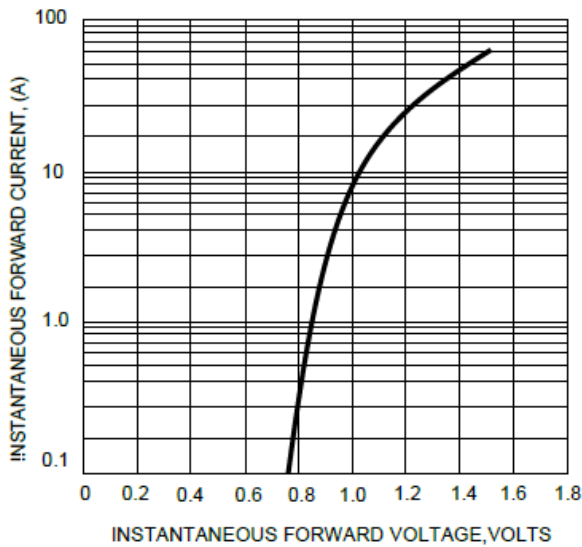
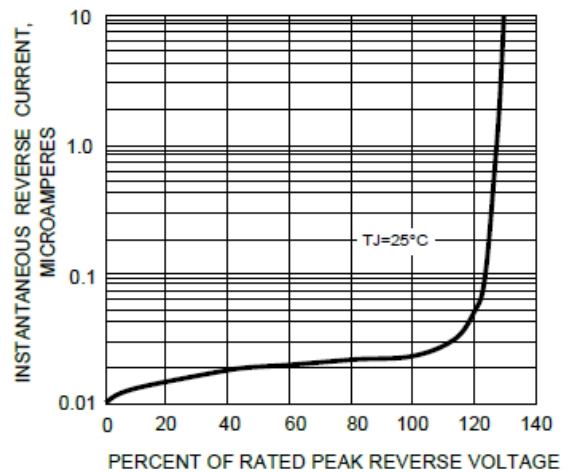
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Catalog Number	SYMBOLS	GBU 15A	GBU 15B	GBU 15D	GBU 15G	GBU 15J	GBU 15K	GBU 15M	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 (with heatsink NOTE 2) @ $T_C=100^\circ C$ Rectified Current (without heatsink °) @ $T_C=100^\circ C$	$I_{AV}$	15.0						4.2		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	250								Amps
Rating for Fusing ( $t < 8.3ms$ )	$I_t^2$	230								A <sup>2</sup> s
Maximum forward voltage at 7.5A DC	$V_F$	1.0								Volts
Maximum DC reverse current at rated DC blocking voltage	$I_R$	10						500		$\mu A$
Typical Junction Capacitance (Note 1)	$C_J$	70								pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	2.2								°C/W
Operating junction temperature range	$T_J$	-55 to +150								°C
storage temperature range	$T_{STG}$	-55 to +150								°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Device mounted on 75mm\*75mm\*1.6mm cu plate heatsink.

3. The typical data above is for reference only.

**RATINGS AND CHARACTERISTIC CURVES GBU15A THRU GBU15M**
**FIG.1-MAXIMUM FORWARD SURGE CURRENT**

**FIG.2- DERATING CURVE  
OUTPUT RECTIFIED CURRENT**

**FIG.3-TYPICAL FORWARD CHARACTERISTICS**

**FIG.4-TYPICAL REVERSE CHARACTERISTICS**


The cruve graph is for reference only, can't be the basis for judgment!

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