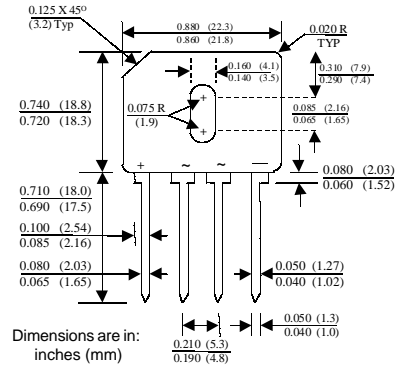
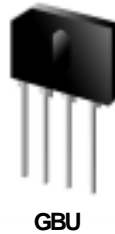


## GBU6A - GBU6M

### Features

- Surge overload rating: 175 amperes peak.
- Reliable low cost construction utilizing molded plastic technique.
- Ideal for printed circuit board.



### 6.0 Ampere Bridge Rectifiers

#### Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
I <sub>o</sub>	Average Rectified Current @ T <sub>A</sub> = 100°C	6.0	A
I <sub>f(surge)</sub>	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	175	A
P <sub>D</sub>	Total Device Dissipation Derate above 25°C	14.5	W mW/°C
R <sub>θJA</sub>	Thermal Resistance, Junction to Ambient,** per leg	8.6	°C/W
R <sub>θJC</sub>	Thermal Resistance, Junction to Case,*** per leg	3.1	°C/W
T <sub>stg</sub>	Storage Temperature Range	-55 to +150	°C
T <sub>J</sub>	Operating Junction Temperature	-55 to +150	°C

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

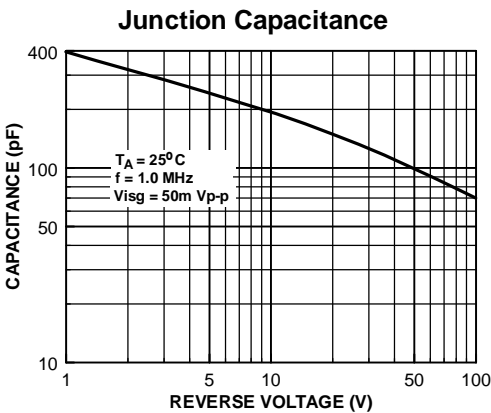
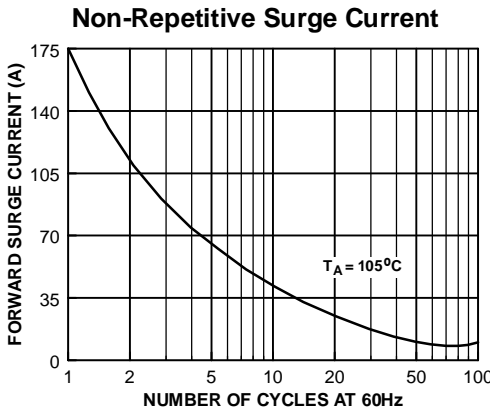
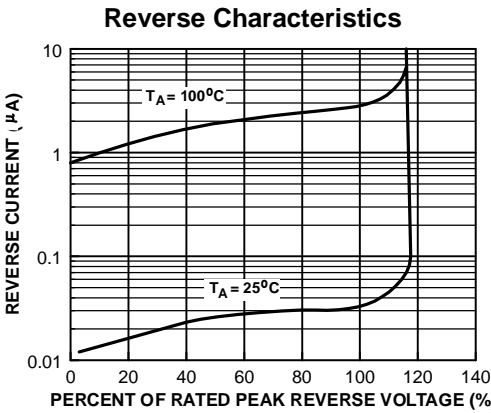
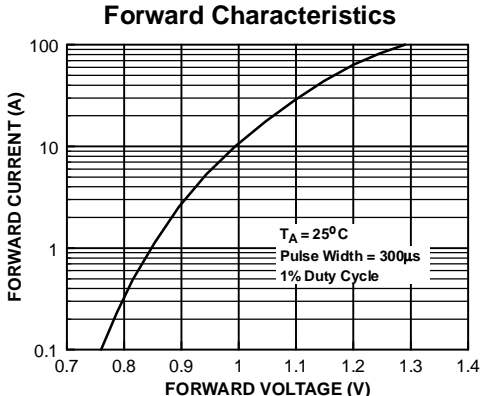
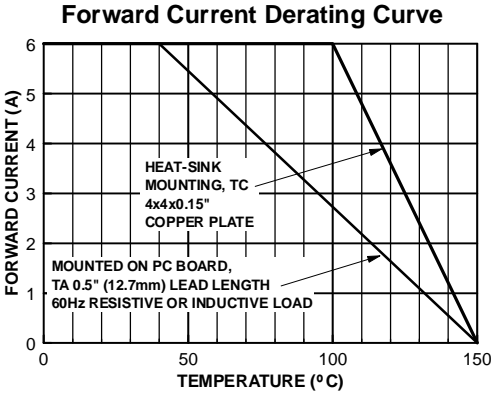
\*\* Device mounted on PCB with 0.5 x 0.5" (12 x 12 mm).

\*\*\* Device mounted on Al plate with 2.6 x 1.4" x 0.06" (6.5 x 3.5 x 0.15 cm).

#### Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Parameter	Device							Units	
	6A	6B	6D	6G	6J	6K	6M		
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Input Voltage	35	70	140	280	420	560	700	V	
DC Reverse Voltage (Rated V <sub>R</sub> )	50	100	200	400	600	800	1000	V	
Maximum Reverse Leakage, per element @ rated V <sub>R</sub>									
	T <sub>A</sub> = 25°C							5.0	μA
	T <sub>A</sub> = 125°C							500	μA
Maximum Forward Voltage Drop, per element @ 6.0 A								1.0	V
I <sup>2</sup> t rating for fusing t < 8.35 ms								127	A <sup>2</sup> Sec

Typical Characteristics



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