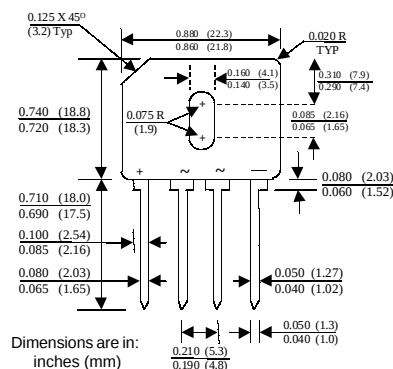
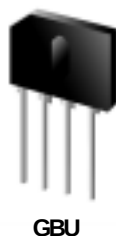


GBU6A - GBU6M

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*

$T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
I_o	Average Rectified Current @ $T_A = 100^\circ\text{C}$	6.0	A
$I_f(\text{surge})$	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	175	A
P_D	Total Device Dissipation Derate above 25°C	14.5	W mW/ $^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	8.6	$^\circ\text{C/W}$
$R_{\theta JC}$	Thermal Resistance, Junction to Case,*** per leg	3.1	$^\circ\text{C/W}$
T_{stg}	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
T_J	Operating Junction Temperature	-55 to +150	$^\circ\text{C}$

*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).

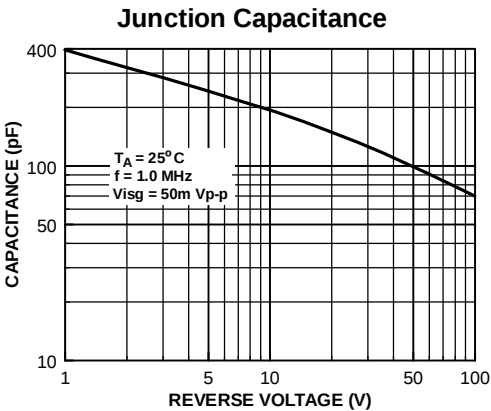
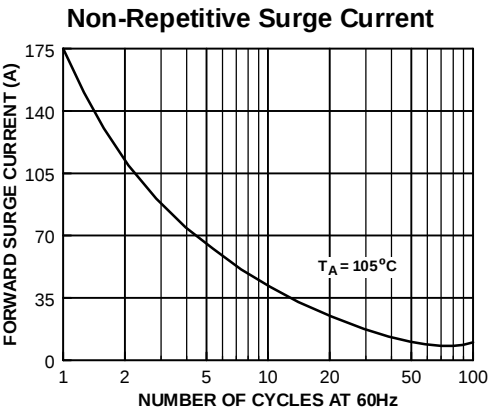
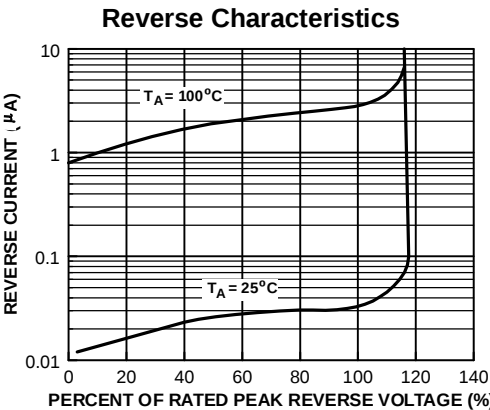
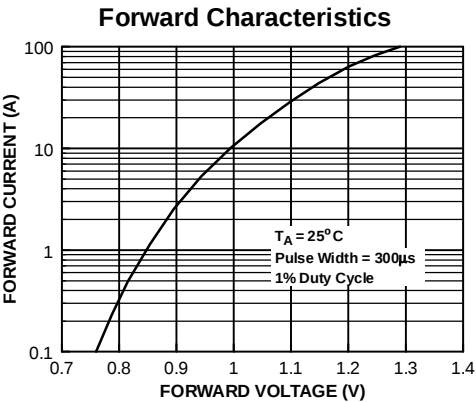
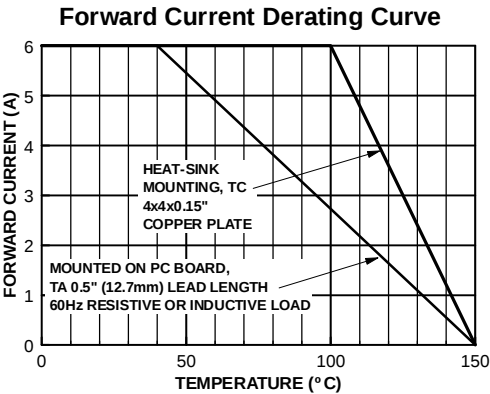
Electrical Characteristics

$T_A = 25^\circ\text{C}$ 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_R)	50	100	200	400	600	800	1000	V
Maximum Reverse Leakage, per element @ rated V_R $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	5.0 500							μA μA
Maximum Forward Voltage Drop, per element @ 6.0 A	1.0							V
I^2t rating for fusing $t < 8.35$ ms	127							A ² Sec

Bridge Rectifiers
(continued)

Typical Characteristics



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