

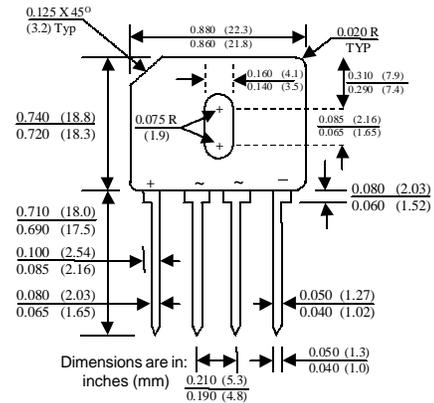
## GBU4A - GBU4M

### Features

- Surge overload rating: 150 amperes peak.
- Reliable low cost construction utilizing molded plastic technique.
- Ideal for printed circuit board.



GBU



### 4.0 Ampere Bridge Rectifiers

#### Absolute Maximum Ratings\*

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

Symbol	Parameter	Value	Units
$I_O$	Average Rectified Current @ $T_A = 100^\circ\text{C}$	4.0	A
	@ $T_A = 40^\circ\text{C}$	3.0	A
$\hat{i}_f(\text{surge})$	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	150	A
$P_D$	Total Device Dissipation	6.9	W
	Derate above $25^\circ\text{C}$	55	mW/ $^\circ\text{C}$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	19	$^\circ\text{C}/\text{W}$
$T_{stg}$	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.

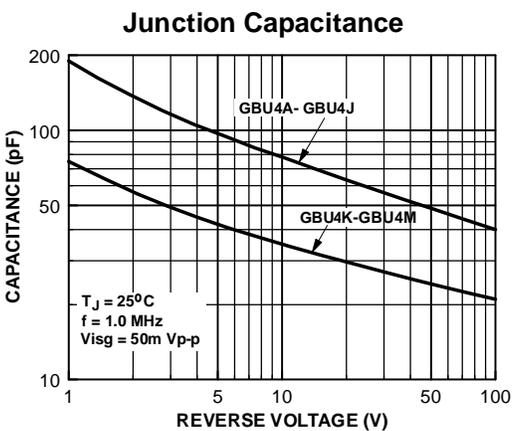
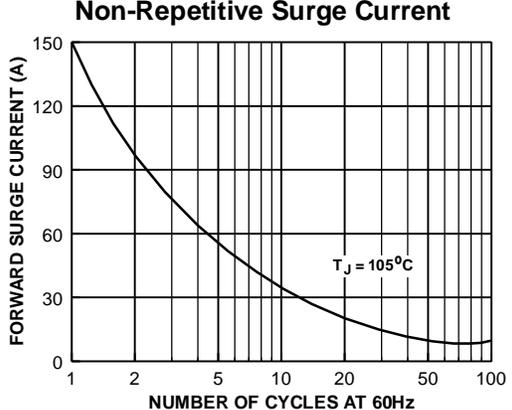
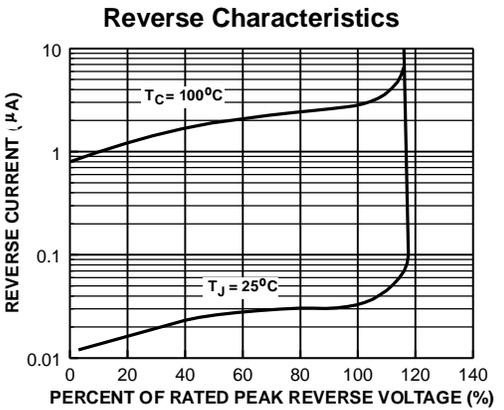
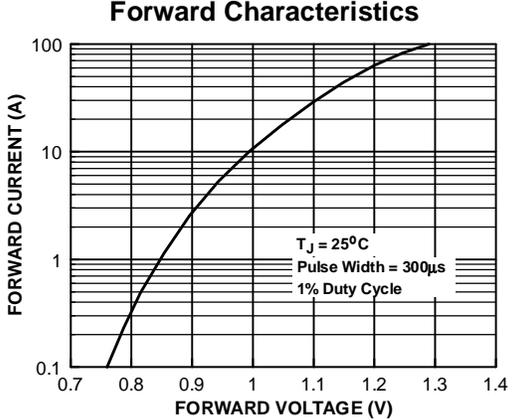
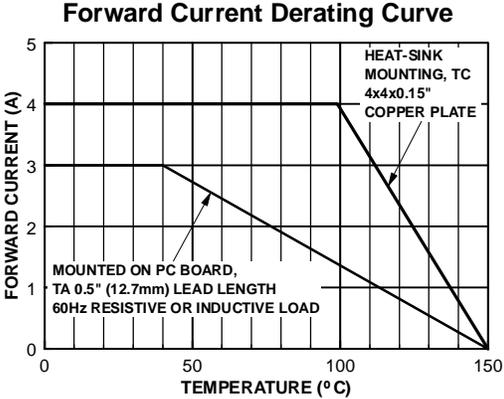
\*\* Device mounted on PCB with  $0.5 \times 0.5"$  ( $12 \times 12$  mm).

#### Electrical Characteristics

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

Parameter	Device							Units	
	4A	4B	4D	4G	4J	4K	4M		
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 $V_R$								$T_A = 25^\circ\text{C}$	$\mu\text{A}$
								$T_A = 125^\circ\text{C}$	$\mu\text{A}$
Maximum Forward Voltage Drop, per element @ 4.0 A								1.0	V
$I^2t$ rating for fusing $t < 8.35$ ms								93	$\text{A}^2\text{Sec}$

Typical Characteristics



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