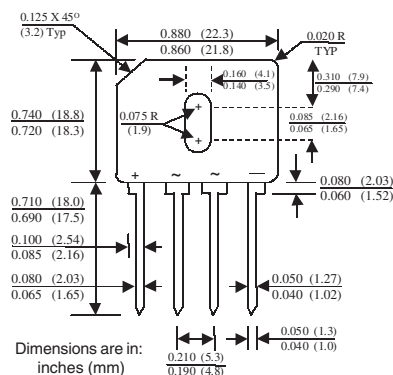


GBU8A - GBU8K

Features

- Surge overload rating: 200 amperes peak.
- Reliable low cost construction utilizing molded plastic technique.
- Ideal for printed circuit board.



8.0 Ampere Bridge Rectifiers

Absolute Maximum Ratings*

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

Symbol	Parameter	Value	Units
I_O	Average Rectified Current @ $T_A = 100^\circ\text{C}$ @ $T_A = 45^\circ\text{C}$	8.0 6.0	A
$I_{f(\text{surge})}$	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	200	A
P_D	Total Device Dissipation Derate above 25°C	6.9 55	W mW/ $^\circ\text{C}$
R_{JA}	Thermal Resistance, Junction to Ambient,** per leg	18	$^\circ\text{C}/\text{W}$
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.

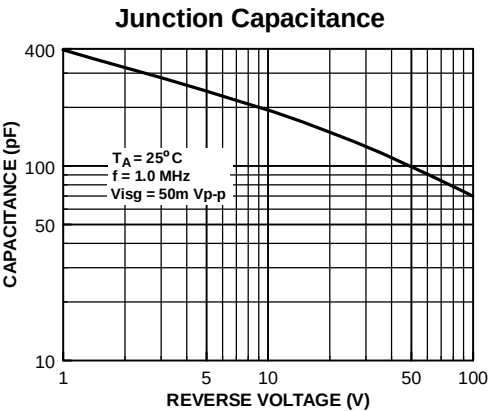
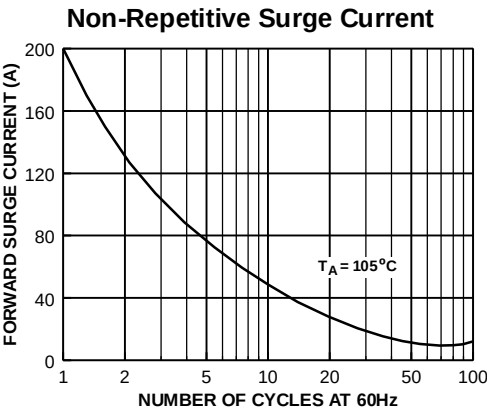
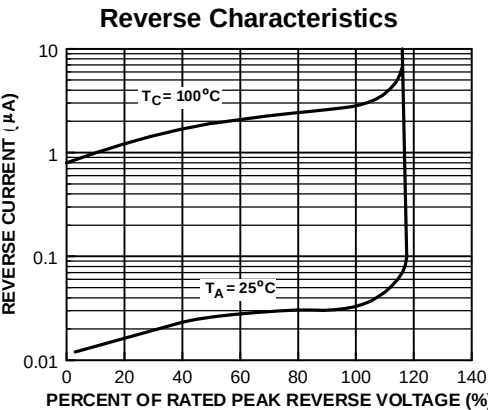
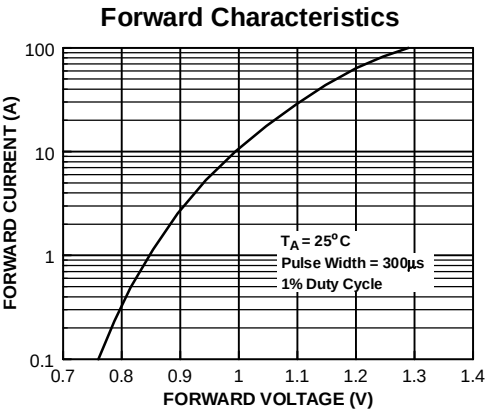
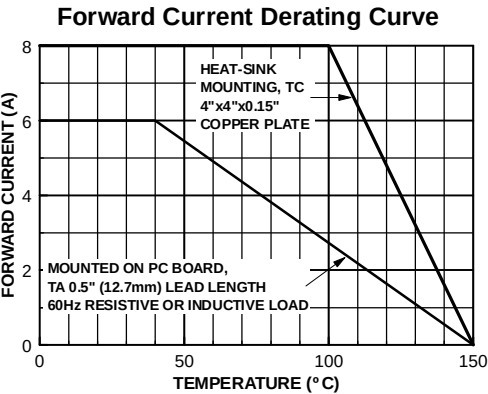
** Device mounted on PCB with 0.5 x 0.5" (12 x 12 mm).

Electrical Characteristics

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

Parameter	Device						Units
	8A	8B	8D	8G	8J	8K	
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	V
Maximum RMS Input Voltage	35	70	140	280	420	560	V
DC Reverse Voltage (Rated V_R)	50	100	200	400	600	800	V
Maximum Reverse Leakage, per element @ rated V_R $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	5.0 500						A A
Maximum Forward Voltage Drop, per element @ 8.0 A	1.0						V
I^2t rating for fusing $t < 8.35$ ms	166						A ² Sec

Typical Characteristics



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