

February 2010

GBU8A - GBU8M Bridge Rectifiers

Features

- · Glass passivated junction
- Surge overload rating: 200 amperes peak
- Reliable low cost construction utilizing molded plastic technique.
- Ideal for printed circuit board.
- UL certified with UL certificate #s E111753 and E326243.



Absolute Maximum Ratings * T_A = 25°C unless otherwise noted

Symbol	Parameter	Value						Units	
Symbol		8A	8B	8D	8G	8J	8K	8M	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
V _{RMS}	Maximum RMS Bridge Input Voltage		70	140	280	420	560	700	V
V _R	DC Reverse Voltage (Rated V _R)		100	200	400	600	800	1000	V
I _{F(AV)}	Average Recitified Forward Current, @ $T_A = 100^{\circ}C$ @ $T_A = 45^{\circ}C$				8.0 6.0				A A
I _{FSM}	Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave	200			А				
T _{STG}	Storage Temperature Range	-55 to +150		°C					
TJ	Operating Junction Temperature	-55 to +150		°C					

^{*} These ratings are limiting values above which the serviceability of any semiconductor device may by impaired.

Thermal Characteristics

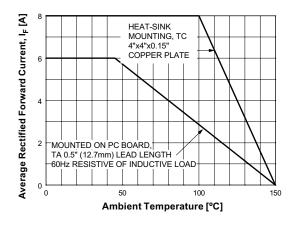
Symbol	Parameter	Value	Units
P_{D}	Power Dissipation	16	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient, * per leg	18	°C/W
$R_{\theta JC}$	Thermal Resistance, Junction to Case, * per leg	3	°C/W

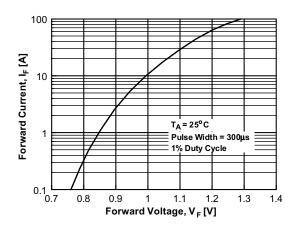
^{*} Device mounted on PCB with 0.5 × 0.5" (12 × 12mm).

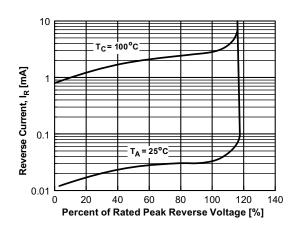
Electrical Characteristics $T_A = 25$ °C unless otherwise noted

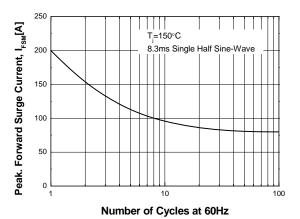
Symbol	Parameter	Value	Units
V _F	Forward Voltage, per element @ 8.0A	1.0	V
I _R	Reverse Current, per element @ Rated V_R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	50 500	μ Α μ Α
	I ² t Rating for Fusing t < 8.35ms	166	A ² s

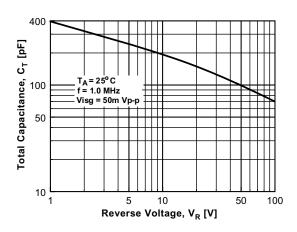
Typical Performance Characteristics















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Definition of Terms				
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