

GBU8A - GBU8M

Features

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

Bridge Rectifiers

Absolute Maximum Ratings* $T_A = 25^{\circ}C$ unless otherwise noted

GBU

Symbol	Parameter	Value						Units	
		8A	8B	8D	8G	8J	8K	8M	
V _{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
V _{RMS}	Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
V _R	DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
I _{F(AV)}	Average Rectified 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 8.3 ms Single Half-Sine-Wave	200			A				
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 be impaired.

Thermal Characteristics

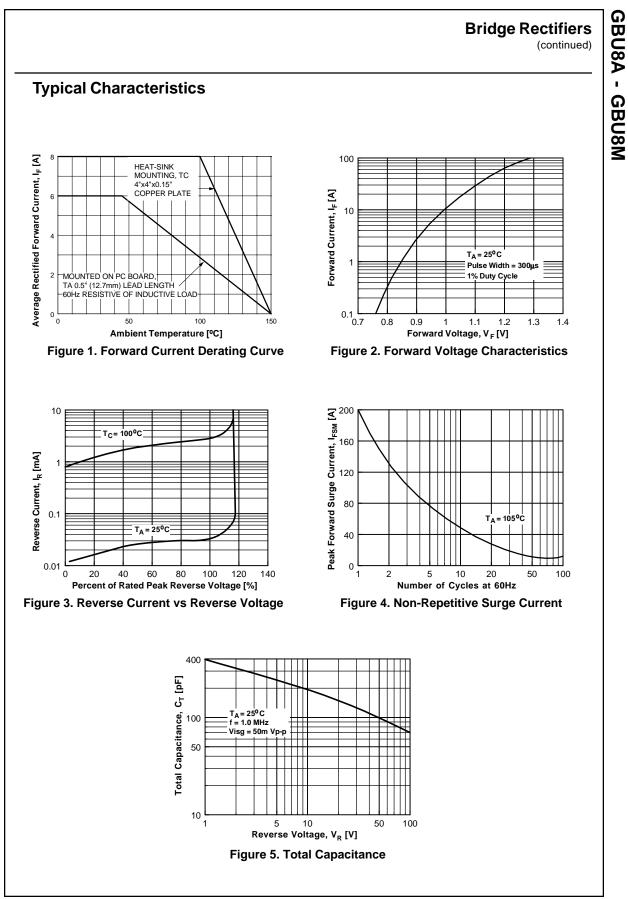
Symbol	Parameter	Value	Units
P _D	Power Dissipation	16	W
R_{\thetaJA}	Thermal Resistance, Junction to Ambient,* per leg	18	°C/W

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

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Device	Units	
V _F	Forward Voltage, per element @ 8.0 A	1.0	V	
I _R	Reverse Current, per element @ rated V_R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	5.0 500	μA μA	
	I^2 t rating for fusing t < 8.35 ms	166	A ² s	

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GBU8A-GBU8M, Rev. D

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