

# Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value						Units	
		4A	4B	4D	4G	4J	4K	4M	
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
V <sub>RMS</sub>	Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
V <sub>R</sub>	DC Reverse Voltage (Rated V <sub>R</sub> )	50	100	200	400	600	800	1000	V
I <sub>F(AV)</sub>	Average Rectified Forward Current, @ $T_A = 100^{\circ}C$ @ $T_A = 40^{\circ}C$				4.0 3.0				A A
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	150			А				
T <sub>stg</sub>	Storage Temperature Range	-55 to +150			°C				
TJ	Operating Junction Temperature			-5	55 to +1	150			°C

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

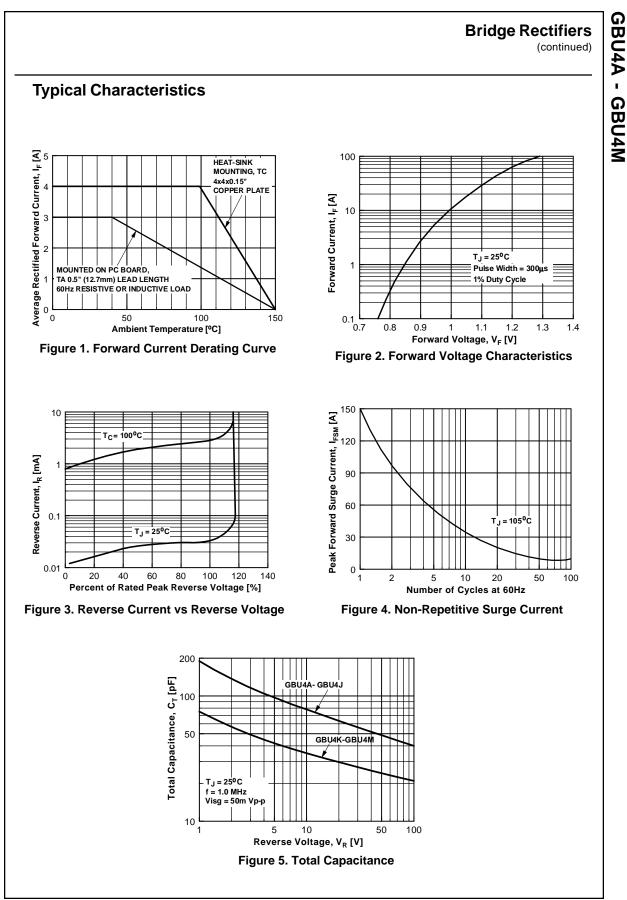
## **Thermal Characteristics**

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	8	W
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient,* per leg	19	°C/W

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

# Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Device	Units
V <sub>F</sub>	Forward Voltage, per element @ 4.0 A	1.0	V
I <sub>R</sub>	Reverse Current, per element @ rated $V_R$ $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	5.0 500	μΑ μΑ
	$I^{2}t$ rating for fusing $t < 8.35$ ms	93	A <sup>2</sup> s



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