

Symbol	Parameter		Value				Units
		1S	2S	4S	6S	8S	
V _{RRM}	Maximum Repetitive Reverse Voltage	100	200	400	600	800	V
V _{RMS}	Maximum RMS Bridge Input Voltage	70	140	280	420	560	V
V _R	DC Reverse Voltage (Rated V _R)	100	200	400	600	800	V
I _{F(AV)}	Average Rectified Forward Current, @ T _A = 50°C		,	0.5			A
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave		35			А	
T _{stg}	Storage Temperature Range		-55 to +150			°C	
TJ	Operating Junction Temperature		-5	5 to +15	50		°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	1.4	W
R _{eJA}	Thermal Resistance, Junction to Ambient,* per leg	85	°C/W
$R_{ extsf{ hetaJL}}$	Thermal Resistance, Junction to Lead,* per leg	20	°C/W

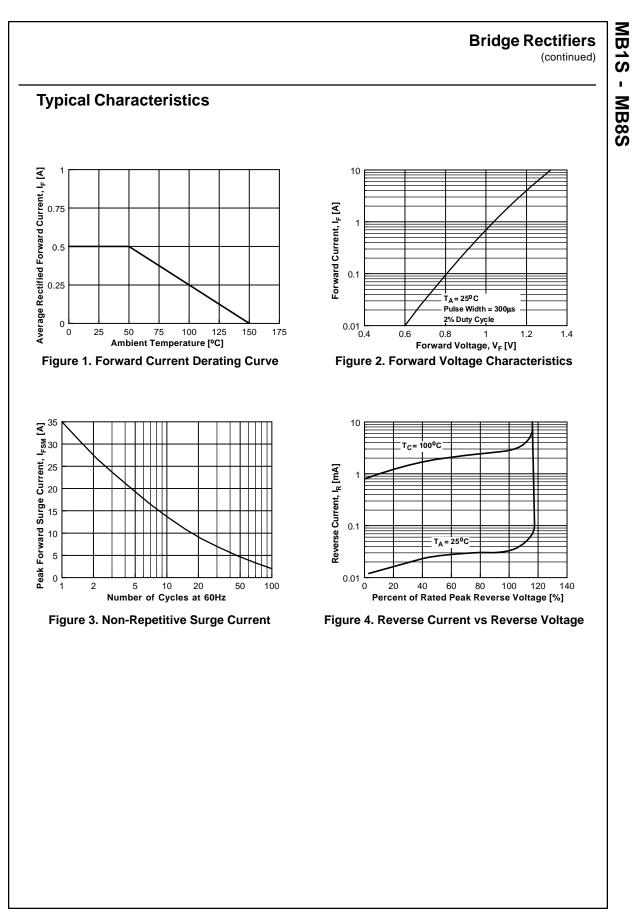
*Device mounted on PCB with 0.5-0.5" (13x13 mm) lead length.

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter		Device	Units
V _F	Forward Voltage, per bridge @ 0.5 A		1.0	V
I _R	Reverse Current, per leg @ rated V_{R}	T _A = 25°C T _A = 125°C	5.0 0.5	μA mA
	I ² t rating for fusing t < 8.3 ms		5.0	A ² s
Ст	Total Capacitance, per leg V _R = 4.0 V, f = 1.0 MHz		13	pF

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MB1S-MB8S, Rev. D



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PRODUCT STATUS DEFINITIONS

Definition of Terms

Product Status	Definition
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First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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