

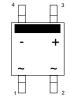
MB1S - MB8S

Features

- Low leakage
- Surge overload rating: 35 amperes peak.
- Ideal for printed circuit board.
- UL certified, UL #E111753.







Bridge Rectifiers

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter		Value				Units
		18	2S	48	6S	88	
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			Α			
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	35		Α			
T _{stg}	Storage Temperature Range -55 to +150			°C			
T _J	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	1.4	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,* per leg	85	°C/W
$R_{\theta JL}$	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	$T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	5.0 0.5	μA mA
	I ² t rating for fusing t < 8.3 ms	~	5.0	A ² s
C _T	Total Capacitance, per leg V _R = 4.0 V, f = 1.0 MHz		13	pF

Bridge Rectifiers

(continued)

Typical Characteristics

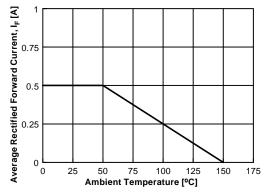


Figure 1. Forward Current Derating Curve

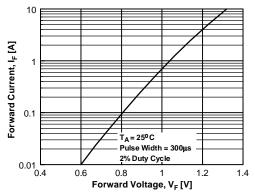


Figure 2. Forward Voltage Characteristics

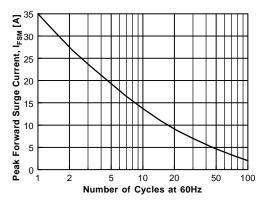


Figure 3. Non-Repetitive Surge Current

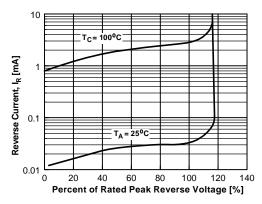


Figure 4. Reverse Current vs Reverse Voltage

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