

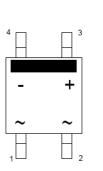
MB1S - MB8S Bridge Rectifiers

Features

- · Low leakage
- · Surge overload rating : 35 amperes peak.
- Ideal for printed circuit board.
- UL certified, UL #E111753 and E326243.



SOIC-4 Polarity symbols molded or marking on body



May 2009

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

Symbol	Parameter	Value					Units
		1S	2S	4S	6S	8S	Units
V _{RRM}	Maximum Repetitive Reverse Voltage	100 200 400 600 800		V			
V _{RMS}	Maximum RMS Bridge Input Voltage7014028		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		А			
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			
Т _Ј	Operating Junction Temperature	-55 to +150		°C			

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

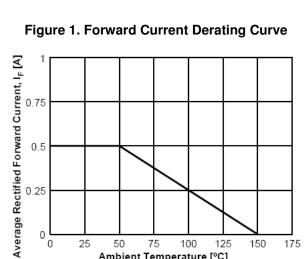
Thermal Characteristics

Symbol	Parameter	Value	Units
PD	Power Dissipation	1.4	W
R _{θJA}	Thermal Resistance, Junction to Ambient,* per leg	85	°C/W
$R_{ extsf{ heta}JL}$	Thermal Resistance, Junction to Lead,* per leg	20	°C/W

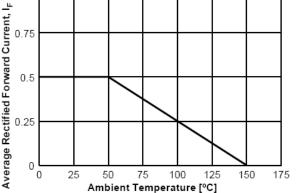
* Device mounted on PCB with 0.5-0.5" (13x13 mm) lead length.

Electrical Characteristics $T_A = 25 \,^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units	
V _F	Forward Voltage, per bridge @ 0.5 A	1.0	V	
I _R	Reverse Current, per leg @ Rated V _R $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$		μA mA	
	I^2 t rating for fusing t < 8.3 ms	5.0	A ² s	
CT	Total Capacitance, per leg V_R = 4.0V, f = 1.0MHz	13	pF	



Typical Performance Characteristics





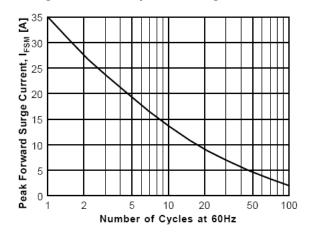


Figure 2. Forward Voltage Characteristics

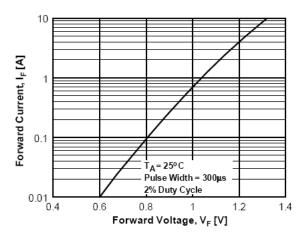
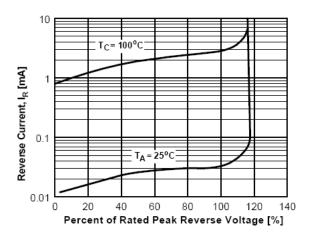


Figure 4. Reverse Current vs Reverse Voltage



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