

## 0.8A Single-Phase Glass Passivated Bridge Rectifiers

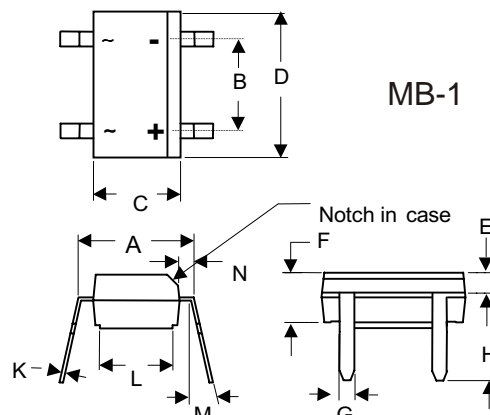
Rectifier Reverse Voltage  $V_{ge}$  50 to 1000V

### Features

- This series is UL listed under the Recognized Component Index, file number E142814
- Ideal for surface mount application
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 30 amperes
- High temperature soldering guaranteed 265°C/10 seconds at 5 lbs (2.3kg) tension

### Mechanical Data

Case: Molded plastic  
 Terminals: Plated leads solderable per MIL-STD-202, Method 208  
 Polarity: Marked on body  
 Mounting Position: Any



DIM	INC HES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.195	.205	4.95	5.21	
B	.095	.105	2.41	2.67	
C	.144	.161	3.65	4.10	
D	.179	.190	4.55	4.83	
E	.039	.049	0.99	1.24	
F	.090	.106	2.30	2.70	
G	.017	.029	0.43	0.74	
H	.132	.148	3.35	3.75	
K	.006	.016	0.15	0.41	
L	.137	.147	3.48	3.73	
M	10°	15°	10°	15°	
N	.020	.028	0.51	0.71	

### Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.  
 For Capacitive load derate current by 20%.

Parameter	Symbol	MB05M	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	unit	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V	
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V	
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V	
Maximum average forward rectified output current at $T_A=40^\circ\text{C}$ (*3)	$I_{F(AV)}$	0.5				0.8*				A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	30								A
Rating for fusing ( $t < 8.3\text{ms}$ )	$I^2 t$	10								A <sup>2</sup> sec
Typical thermal resistance per element (1)	$R_{\theta JA}$	110								°C/W
Typical junction capacitance per element (2)	$C_j$	25.0								pF
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to + 150								°C

### Electrical Characteristics

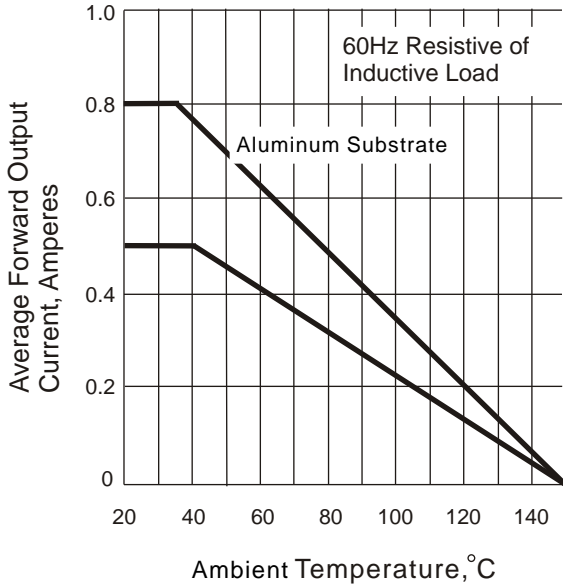
Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.  
 For Capacitive load derate by 20 %.

Parameter	Symbol	MB05M	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	Unit	
Maximum instantaneous forward voltage drop per leg at 0.5A	V <sub>F</sub>	1.1								V
Maximum DC reverse current at rated $T_A=25^\circ\text{C}$ DC blocking voltage per element $T_A=125^\circ\text{C}$	$I_R$	10				500				μA

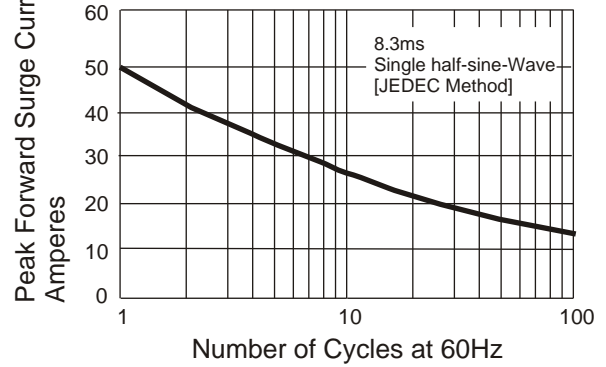
**Notes:** (1) Thermal resistance from Junction to Ambient on P.C. board mounting.  
 (2) Measured at 2.0MHz and applied reverse voltage of 4.0 volts.  
 (3) R-load on aluminum substrate  $T_A=25^\circ\text{C}$ .

**Rating and Characteristic Curves ( TA=25°C Unless otherwise noted )**  
**MB05M-MB10M**

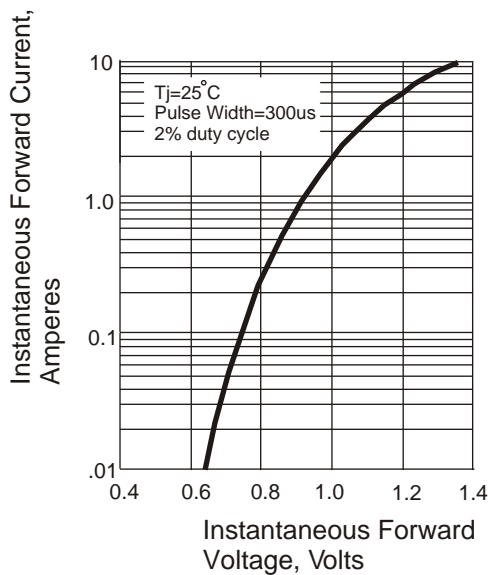
**Fig. 1 Derating Curve for Output Rectified Current**



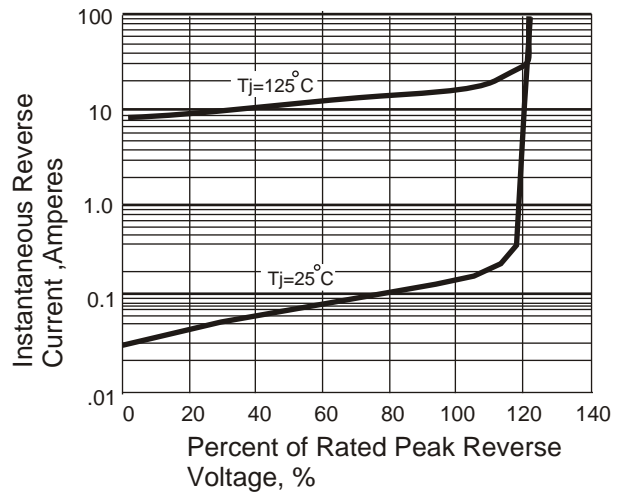
**Fig. 2 Maximum Non-repetitive Peak Forward Surge Current**



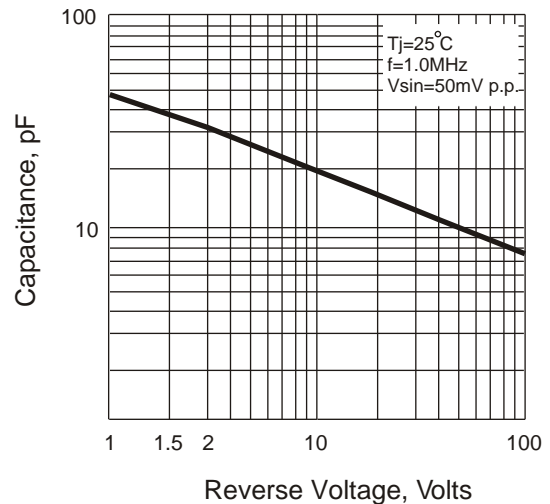
**Fig. 3 Typical Instantaneous Forward Characteristics**



**Fig. 4 Typical Revers Characteristics**



**Fig. 5 Typical Junction Capacitance**



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