

Features

- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded plastic technique
- * High surge current capability
- * Polarity: Symbol molded on body
- * Mounting position: Any
- * Weight: 0.14 grams

Case Style

DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
AB	.195	.205	4.95	5.21	
CD	.095	.105	4.13	6.74	
E	.144	.161	6.54	10.48	
	.179	.190	5.50		
	.039	.049	.99	1.24	
FG	.090	.106	2.30	2.70	
H	.017	.029	.43	.74	
	.132	.148	3.50	7.50	
K	.006	.016	.15	.41	
L	.137	.147	.48	.73	
M	1 1/8	5	1 0	5	
N	.020	.028	0.51	0.71	

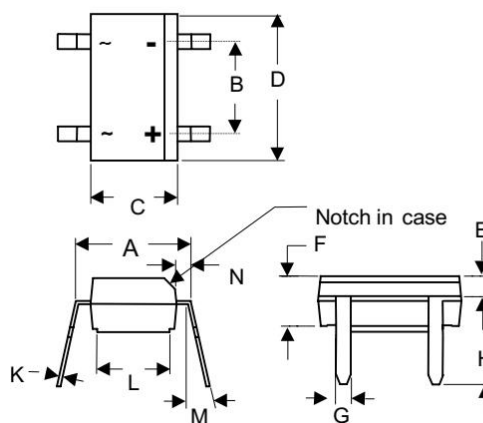
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

0.8 Ampere

MB-1



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Rating 25 C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	MB05M	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	UNIT
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta=40 C(Note 1)	0.8							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	3.0							A
Maximum Forward Voltage Drop per Bridge Element at 0.4A D.C.	1.0							V _μ
Maximum DC Reverse Current Ta=25 C	5.0							A _μ
at Rated DC Blocking Voltage Ta=125 C	500							A
Typical Thermal Resistance R _{JA} (Note 2)	75							C/W
Operating Temperature Range, T _J	-55 — +150							C
Storage Temperature Range, T _{STG}	55 — +150							C

NOTES: 1. Mounted on P.C. Board.
2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (MB05M THRU MB10M)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

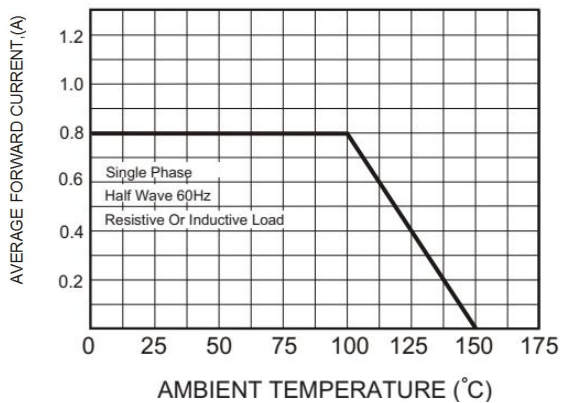


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

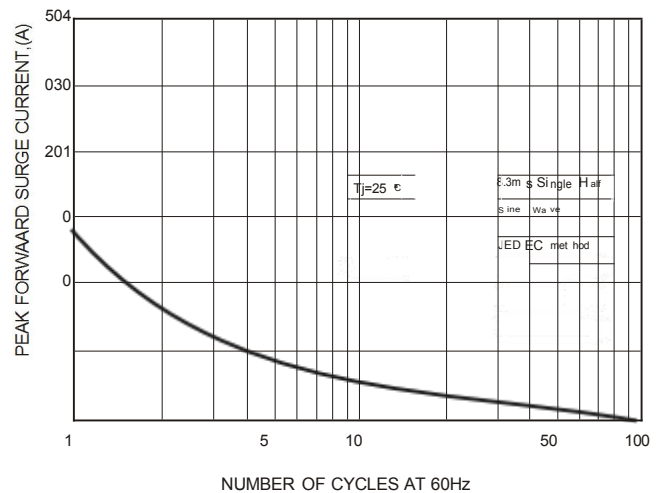


FIG.3-TYPICAL FORWARD CHARACTERISTICS

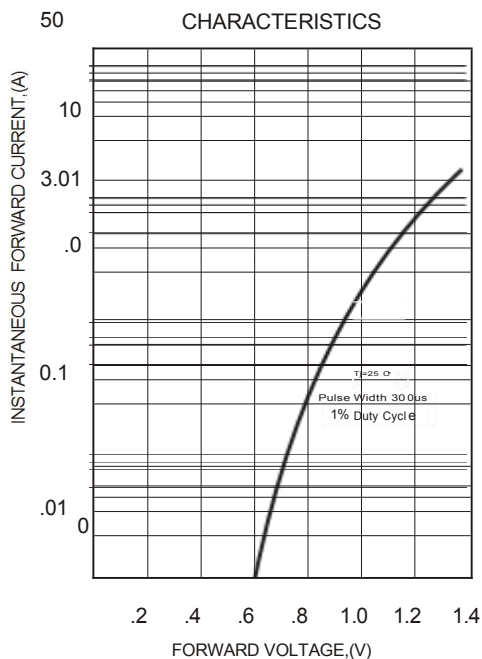


FIG.4-TYPICAL REVERSE CHARACTERISTICS

