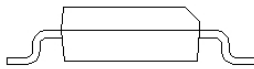
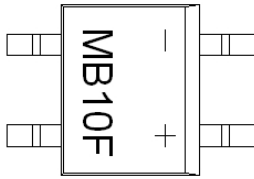



**MBF**

**Features**

- Glass Passivated Die Construction
- High Forward surge capability
- Low Forward Voltage Drop
- High temperature soldering guaranteed: 260°C/10 S
- Lead and body according with RoHS standard

**Mechanical Data**

- MBF small outline plastic package
- As Marked on Case
- Epoxy UL: 94V-0
- Mounting Position: Any

**Maximum Ratings & Thermal Characteristics**

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	Unit	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V	
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V	
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V	
Average Rectified Output Current @Ta=40°C Note 1	Io								0.5	A
Average Rectified Output Current @Ta=40°C Note 2									0.8	
Non-repetitive Peak forward surge current 8.3 ms single half sine-wave (JEDEC Method)	IFSM								30	A
I <sup>2</sup> t Rating for Fusing(t<8.3ms)	I <sup>2</sup> t								5.0	A <sup>2</sup> s
Typical thermal resistance	RθJA								60	°C/W
Operation junction and Storage temperature range	Tj, TSTG								-55-+150	°C

 Note: 1, Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad;

 2, Mounted on aluminum substrate PC board with 1.3mm<sup>2</sup> solder pad.

**Electrical Characteristics**

(Ratings at 25°C ambient temperature unless otherwise specified).

参数 Parameters	符号 Symbol	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	单位 Unit	
最大正向电压 @IF=0.5A Max. forward voltage	VF								1.0	V
最大反向电流@VDC TA=25°C Max. reverse current TA=125°C	IR								5 500	uA
典型结电容 VR=4.0V, f=1MHz Type junction capacitance	Cj								13	pF

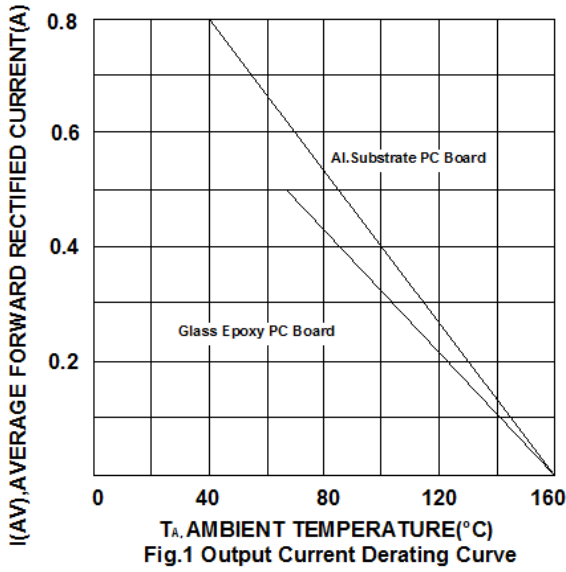


Fig.1 Output Current Derating Curve

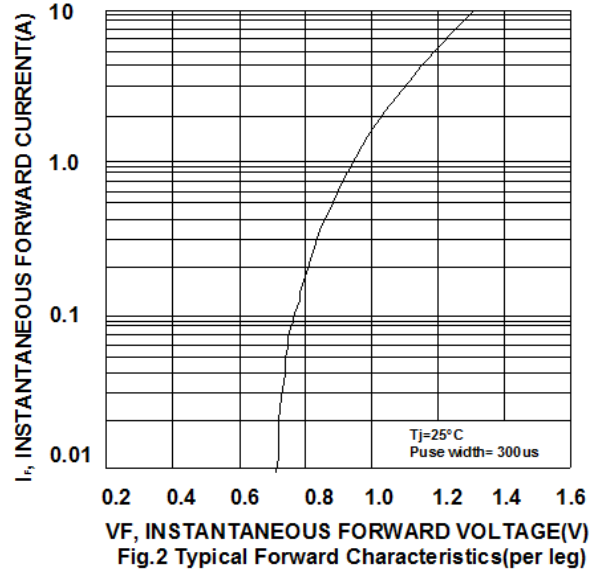


Fig.2 Typical Forward Characteristics(per leg)

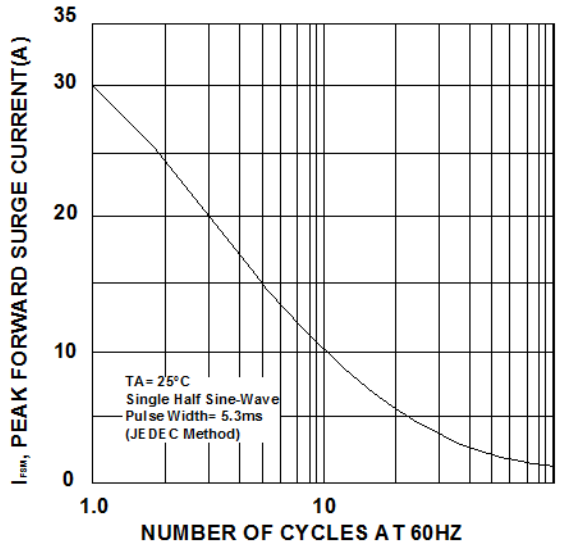


Fig.3 Maximum Peak Forward Surge Current (per leg)

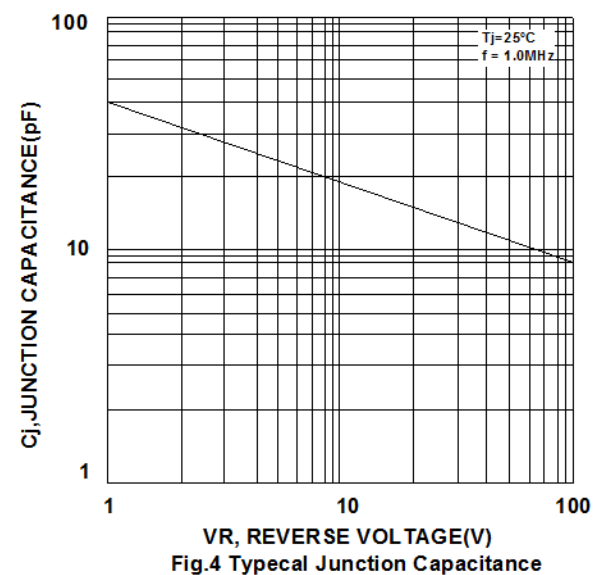


Fig.4 Typical Junction Capacitance

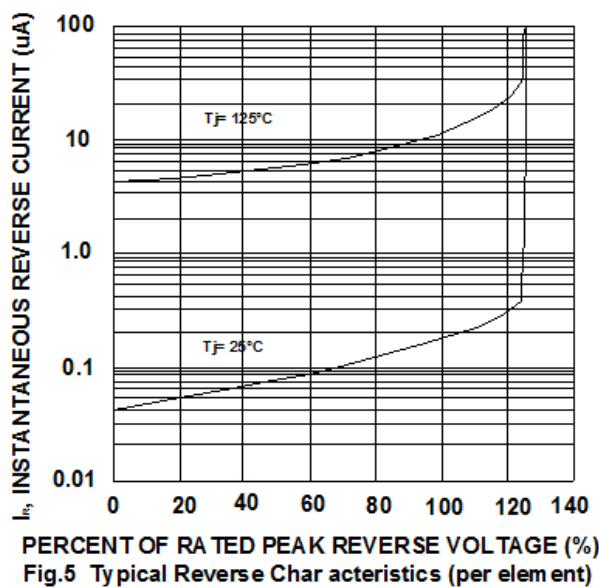
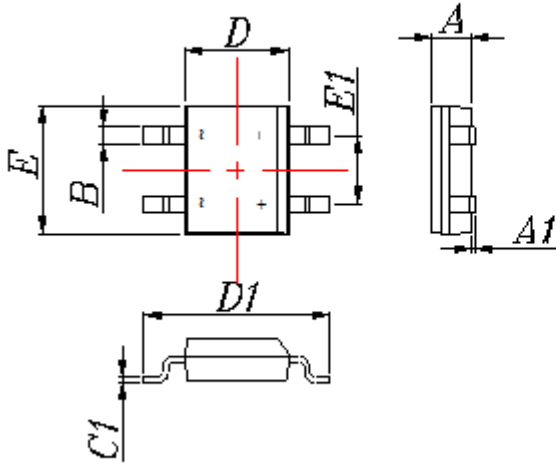


Fig.5 Typical Reverse Characteristics (per element)

**MBF PACKAGE OUTLINE**

Plastic surface mounted package

MBF



Symbol	Min.	Max.
A	1.30	1.50
A1	--	0.2
B	0.50	0.70
C1	0.15	0.30
D	3.70	3.90
D1	6.70	6.90
E	4.70	4.90
E1	2.45	2.55

单位: mm

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