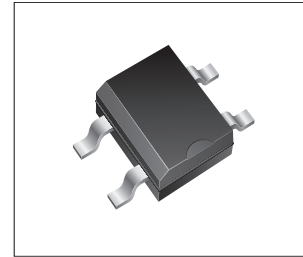


Bridge Rectifiers

MB2F—MB10F

Features

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Ideal for printed circuit boards
- ◆ Glass passivated chip junction
- ◆ High forward surge capability



Mechanical Data

Case: MBF Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

High temperature soldering guaranteed: 260°C/10 seconds

Mounting Position: Any

Maximum Ratings & Electrical Characteristics

Ratings at TA = 25°C unless otherwise specified

Characteristic	Symbol	MB2F	MB4F	MB6F	MB8F	MB10F	Units
Peak repetitive reverse voltage	VRRM	200	400	600	800	1000	V
RMS reverse voltage	VRMS	140	280	420	560	700	V
DC blocking voltage	VDC	200	400	600	800	1000	V
Maximum average forward output current	IF(AV)	0.8					A
Peak forward surge current,8.3ms single half-sine-wave, @TJ = 25°C	IFSM	30					A
Rating for fusing(t<8.3ms)	I2t	3.7					A2sec
Maximum instantaneous forward voltage @ 0.4A	VF	1.0					V
Maximum Reverse current Rated VR @TA =25°C	IR	5					μ A
		50					

Thermal Characteristics

Characteristic	Symbol	MB2F	MB4F	MB6F	MB8F	MB10F	Units
Typical thermal resistance (Note 1)	R θJA	85					°C /W
	R θJL	20					
Operating junction temperature range	TJ	- 55 ---- + 150					°C
Storage temperature range	TSTG	- 55 ---- + 150					°C

Note

(1) (1) On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3 mm) pads

Bridge Rectifiers

MB2F—MB10F

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1-Forward Current Derating Curve

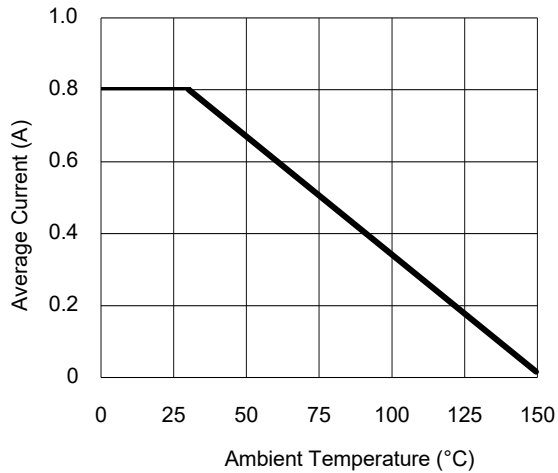


Fig.2- Surge Current Derating Curve

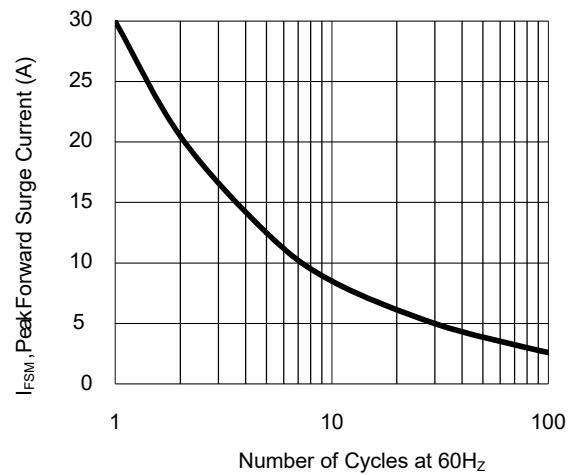


Fig.3- Typical Forward Voltage Characteristic

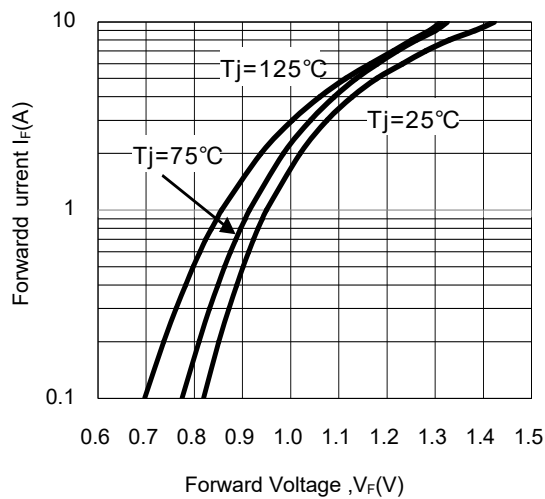
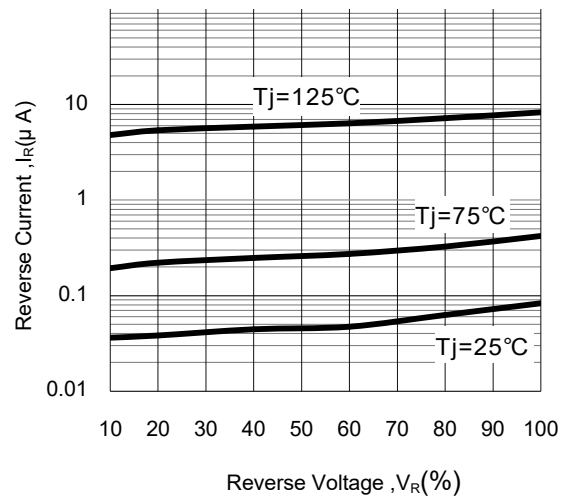


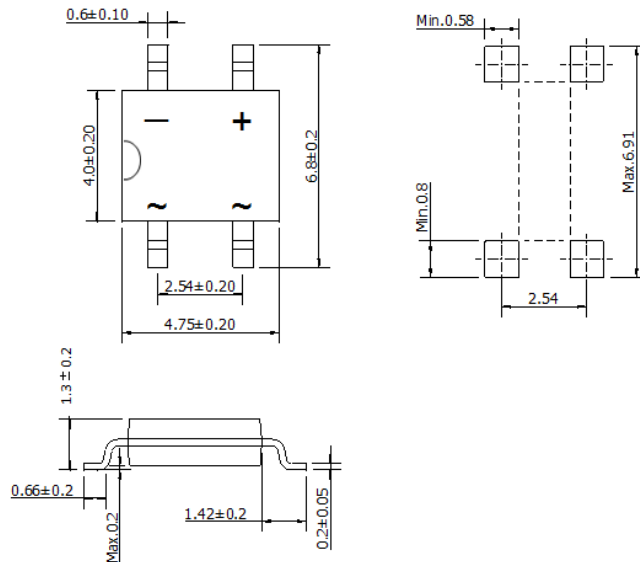
Fig.4- Typical Reverse Characteristic



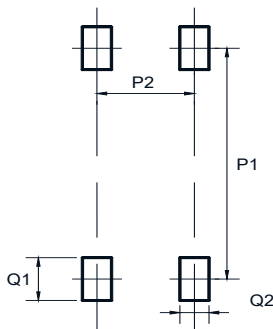
Bridge Rectifiers

MB2F—MB10F

Package Outline Dimensions(unit:mm)



Mounting Pad Layout(unit:mm)



Dim	Min
P1	6.0
P2	2.5
Q1	1.8
Q2	1.2

Ordering Information

Part No.	Marking	Package	Shipping
MB2F	MB2F	MBF	5000PCS /Tape&Reel
MB4F	MB4F	MBF	5000PCS /Tape&Reel
MB6F	MB6F	MBF	5000PCS /Tape&Reel
MB8F	MB8F	MBF	5000PCS /Tape&Reel
MB10F	MB10F	MBF	5000PCS /Tape&Reel