



Bridge Rectifiers

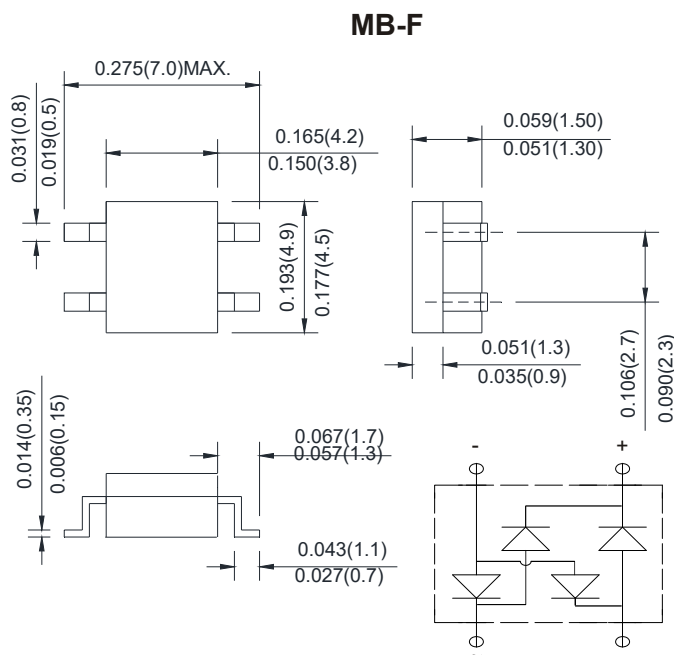
MB2F THRU MB10F 200 to 1000 V 1.0 A

Typical Applications

General purpose use in AC/DC bridge full wave rectification for SMPS, lighting ballast, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

Features And Mechanical Data

- Package:MB-F
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals applications.
- Terminals: Tin plated leads, solderable per STD-002 and JESD22-B102
- Polarity: As marked on body



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

		Symbols	MB2F	MB4F	MB6F	MB8F	MB10F	Units
Maximum Recurrent Peak Reverse Voltage		VRRM	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current. Lead Length @Ta(Fig 1)		I(AV)	1.0 (Note 1) 0.8 (Note 2)					Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method) (Rating of per diode)		IFSM	30					Amp
Maximum Instantaneous Peak Forward Voltage @Drop Per Diode of 1/2 I(AV)		VF	1.1					Volts
Maximum DC reverse current at rated DC blocking voltage per Tj=25°C Tj=100°C		IR	5 500					uAmp
Current squared time @1ms≤t≤8.3ms Tj=25 C , Rating of per diode		i² t	3.75					A²S
Typical Thermal Resistance	Between junction and ambient	RθJA	76 (Note 3)					°C/W
		RθJA	134 (Note 4)					
	Between junction and lead	RθJL	20					
Operating Temperature Range		TJ	-55 to +150					°C
Storage Temperature Range		TSTG	-55 to +150					°C

Note:

1. Mounted on aluminum substrate PCB board with 1.3*1.3mm solder pad are
2. Mounted on glass epoxy PCB board with 1.3*1.3mm solder pad areas
3. Between junction and ambient, On alumina substrate
4. Between junction and ambient, On glass-epoxy substrate

※ This product The above data sheet typical data meet the Mentioned standards, designers for reference only

Ordering Information (Example)

Preferred P/N	Package code	Unit weight(g)	Minimum Package(pcs)	Inner box Quantity(pcs)	Outer carton quantity(pcs)	Delivery mode
MBF	F1	about 0.12	5000	10000	100000	13' reel



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