

VOLTAGE RANGE CURRENT

MBF

50 to 1000 Volts

1.0 Ampere

RoHS

Features

Glass passivated chip:50mil

· Glass passivated chip junction

· Ideal for surface mounted applications

Low leakage

· High forward surge current capability

 High temperature soldering guaranteed: 260°C/10 seconds at terminals

Mechanical Data

· Case: Molded plastic body

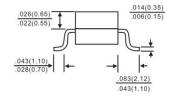
• Epoxy: UL94V-0 rate flame retardant

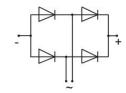
· Polarity: Molded on body

 LeadP: Plated terminals solderable per MIL-STD-202E method 208C

Weight: 0.004 ounce, 0.120 gram

.025(0.64) .022(0.56) .155(3.95) .150(3.65) .087(2.20) .087(2.20)





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%

TYPE NUMBER			MB 01FH	MB 02FH	MB 03FH	MB 04FH	MB 06FH	MB 08FH	MB 10FH	UNIT
Maximum Reverse Peak Repetitive Voltage	е	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage			50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, 0.06"(1.5mm) lead length at T _A =100°C			1.0						Amps	
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)			30							Amps
Peak Forward Surge Current 1.0ms single half sine wave superimposed on rated load (JEDEC Method)			65							
Rating for Fusing (t<8.3ms)			3.7						A ² s	
Maximum Instantaneous Forward Voltage drop Per Bridge element 1.0A		V _F	1.1						Volts	
Maximum Reverse Current at rated	TA=25℃		5						μAmp	
DC blocking voltage per element	TA=125℃	l _R	120						s	
Typical Junction Capacitance (NOTE 1)			13						pF	
Typical Thermal Resistance (NOTE 2)			80						°C/W	
Operating and Storage Temperature Range		T _J ,T _{STG}	(-55 to +150)						$^{\circ}\mathbb{C}$	

Notes:

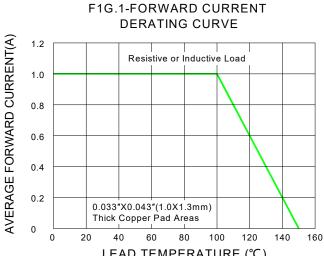
- 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 2. Unit mounted on P.C.B. with 0.033"×0.043"(1.00mm×1.30mm) copper pads.

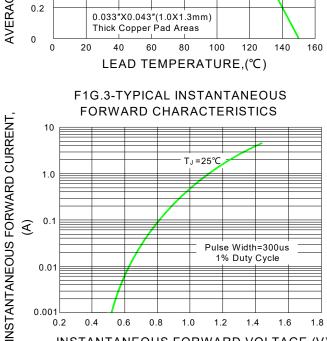


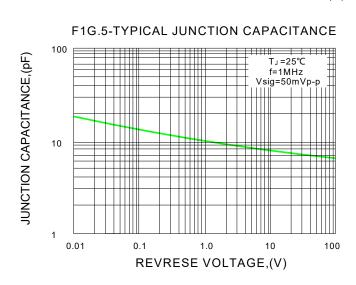
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Ratings and Characteristic Curves (T_A=25°C unless otherwise noted)







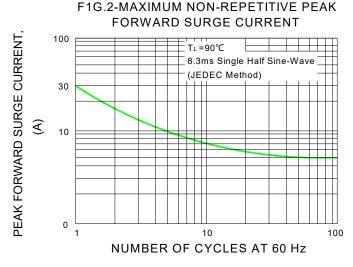
0.8

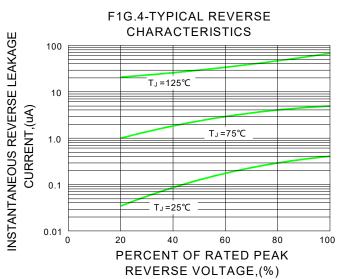
1.0

INSTANTANEOUS FORWARD VOLTAGE,(V)

1.2

1.6





0.01

0.4

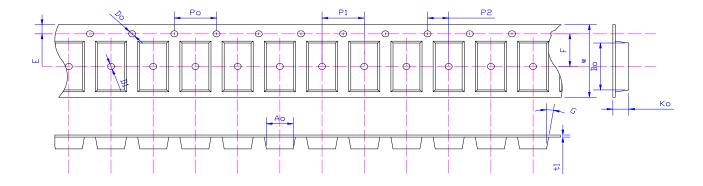


VOLTAGE RANGE

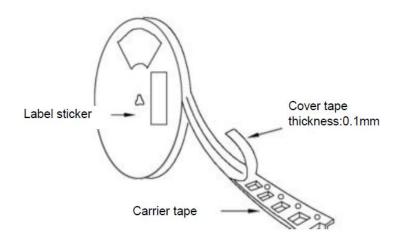
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CURRENT

Package Reel Information



Specifications	Ao	Во	Ko	Po	W	t1
MBF	5.05±0.10	7.10±0.10	1.65±0.10	4.00±0.1	12.0±0.10	0.30±0.02

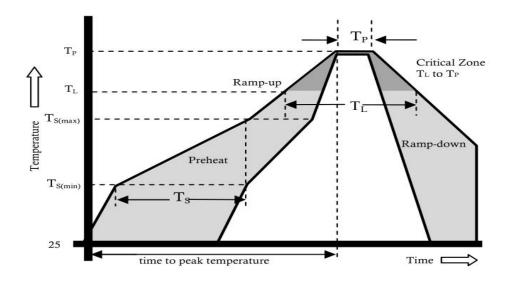


DEVICE	Tape		13"Reel		07"Reel				
TYPE		Q'TY/REEL(p cs)	BOX/CARTO ON	Q'TY/CARTO N(pcs)	Q'TY/REEL(p cs)	REEL/BOX	BOX/CARTO ON	Q'TY/CARTO N(pcs)	
MBF	13mm	5000	8	80000	NA	NA	NA	NA	



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Reflow Profile



	Reflow Condition	Pb-Free Assembly			
	Temperature Min.	+150°C			
Pre Heat	Temperature Max.	+200°C			
	Time(Min to Max)	60-180 secs.			
Average ram	p up rate(Liquidus Temp(T∟) to peak)	3°C/sec. Max.			
T _S (max) to T∟ - Ramp-up Rate	3°C/sec. Max.			
Reflow	Temperature (T _∟)(Liquidus)	+217°C			
	Temperature (T _L)	60-150 secs.			
	Peak Temp (T _P)	+(260+0/-5)°C			
Time with	nin 5°C of actual Peak Temp (T _P)	25 secs.			
	Ramp-down Rate	6°C/sec. Max.			
Tin	ne 25°C to peak Temp (T _P)	8 min. Max.			
	Do not exceed	+260°C			

SURFACE MOUNT GLASS PASSIVATED STANDARD RECTIFIER BRIDGE

MB01FH THRU MB10FH

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Disclaimer

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