



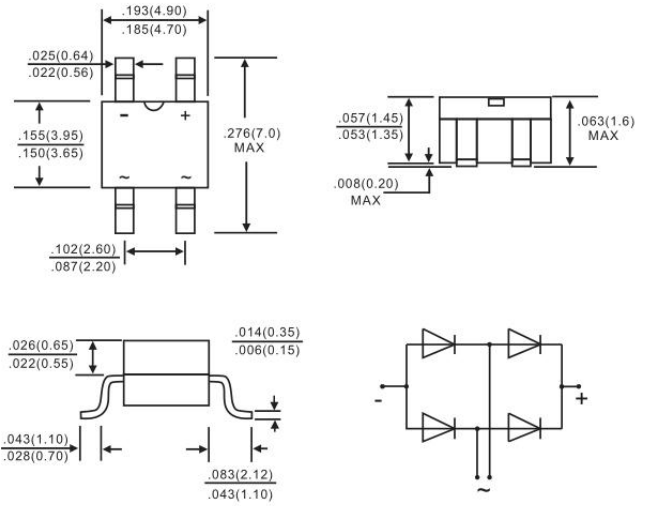
MB01FH THRU MB10FH

VOLTAGE RANGE 50 to 1000 Volts
CURRENT 1.0 Ampere

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

MBF



Dimensions in inches and (millimeters)

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

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	SYMBOL S	MB 01FH	MB 02FH	MB 03FH	MB 04FH	MB 06FH	MB 08FH	MB 10FH	UNIT
Maximum Reverse Peak Repetitive Voltage	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	V _{DC}	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	I _(AV)	1.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	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)	I ² t	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 DC blocking voltage per element	I _R	5							μAmps
		120							
Typical Junction Capacitance (NOTE 1)	C _J	13							pF
Typical Thermal Resistance (NOTE 2)	R _{ΘJA}	80							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	(-55 to +150)							°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.

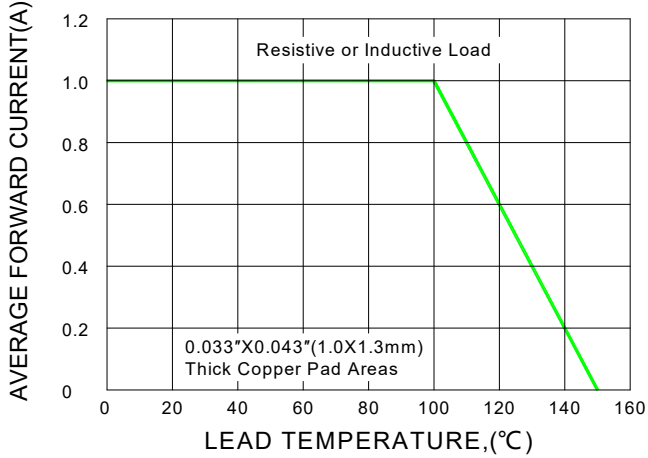


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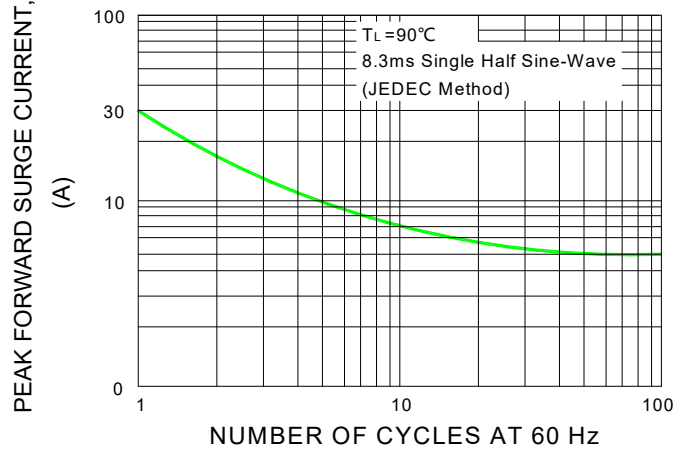
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Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

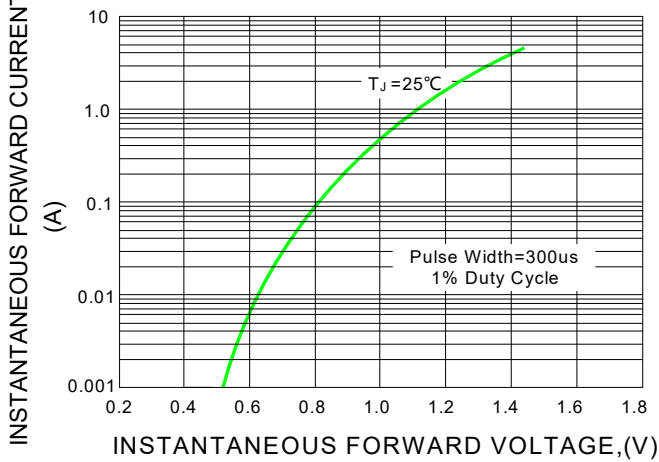
F1G.1-FORWARD CURRENT DERATING CURVE



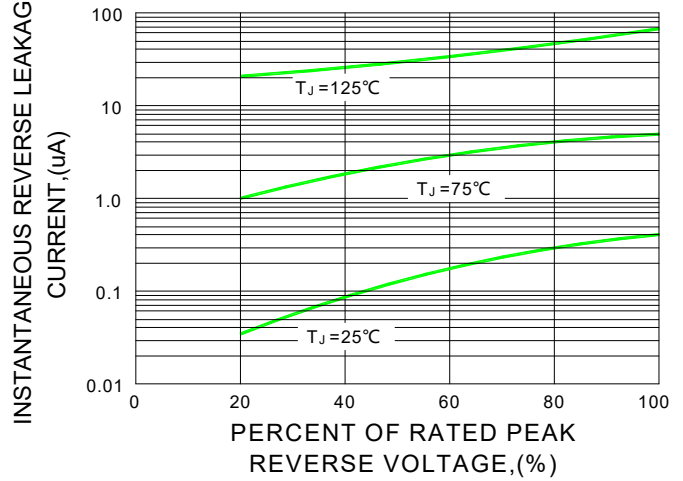
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



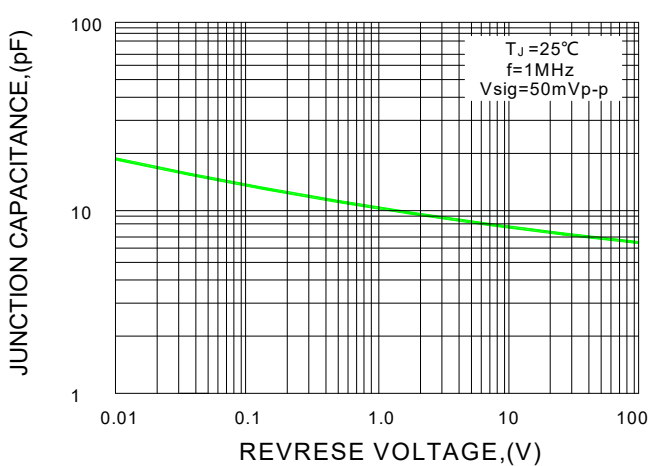
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE

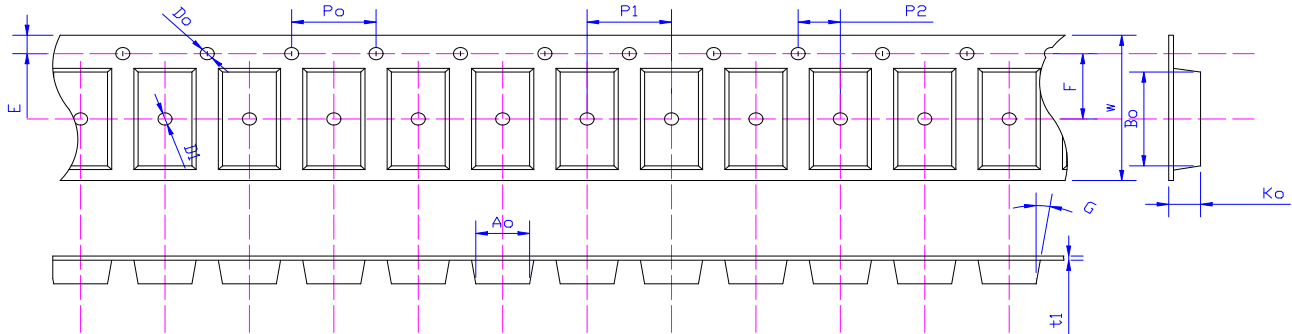




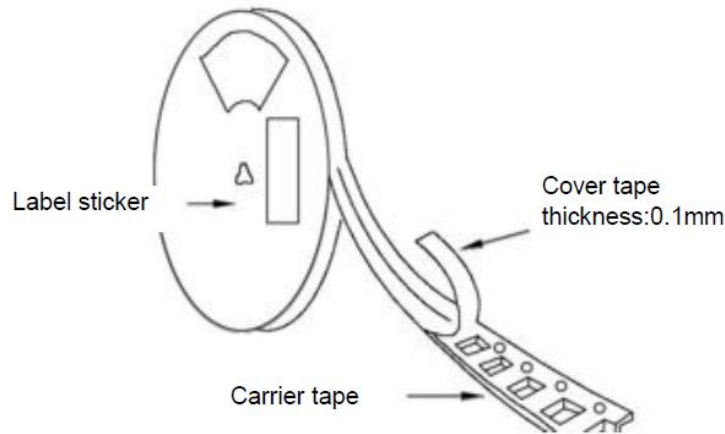
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Package Reel Information



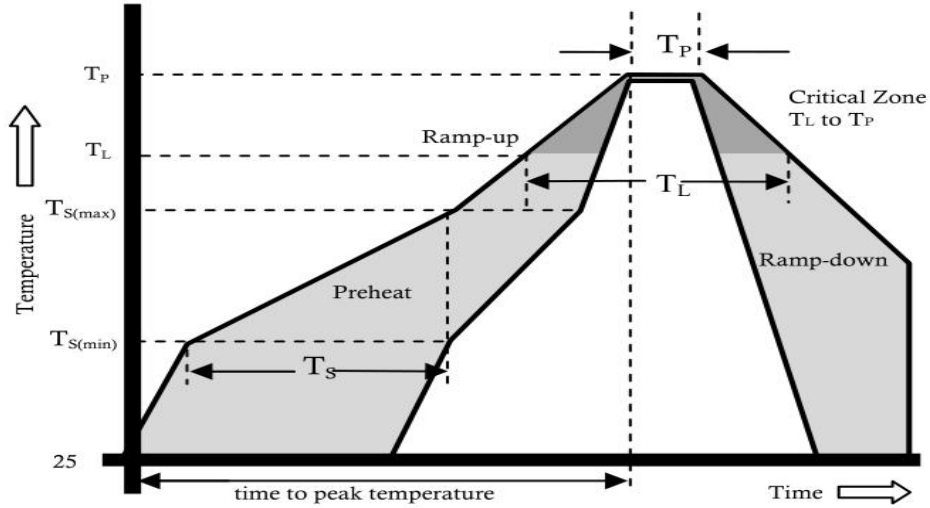
Specifications	Ao	Bo	Ko	Po	W	t1
MBF	5.05±0.10	7.10±0.10	1.65±0.10	4.00±0.1	12.0±0.10	0.30±0.02



DEVICE TYPE	Tape Width	13"Reel			07"Reel			
		Q'TY/REEL(pcs)	BOX/CARTON	Q'TY/CARTON(pcs)	Q'TY/REEL(pcs)	REEL/BOX	BOX/CARTON	Q'TY/CARTON(pcs)
MBF	13mm	5000	8	80000	NA	NA	NA	NA



Reflow Profile



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



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