

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating							Unit
		MB05F 10-34	MB1F 10-34	MB2F 10-34	MB4F 10-34	MB6F 10-34	MB8F 10-34	MB10F 10-34	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current (Note 1) @T _A =40	I _{F(AV)}	1							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	30							A
I ² t Rating for Fusing(t<8.3ms)	I ² _t	3.7							A ² s
Typical Junction Capacitance Per Element (Note2)	C _j	13							pF
Typical Thermal Resistance (Note3)	R _{θJA}	60							/W
	R _{θJL}	16							
Operating and Storage Temperature Range	T _j ,T _{stg}	-55 to +150							

NOTES:

- 1.Mounted on P.C. board.
- 2.Measured at1.0MHz and applied reverse voltage of 4.0V DC.
- 3.Thermal resistance junction to case

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Rating	Unit
Max Instantaneous Forward Voltage	V_F	$I_F=0.8A$	1.1	V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I_R	T _a =25	5.0	μA
		T _a =125	100	μA

/ Electrical Characteristic Curve

FIG.1-FORWARD CURRENT DERATING CURVE

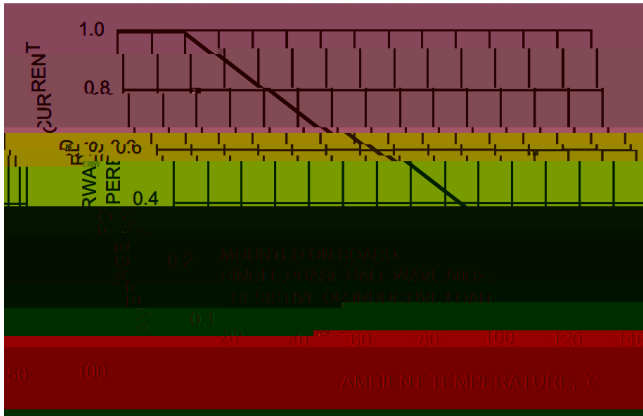


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

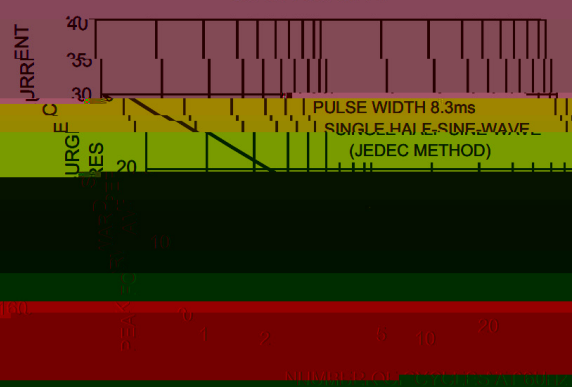


FIG.3-TYPICAL REVERSE CHARACTERISTICS

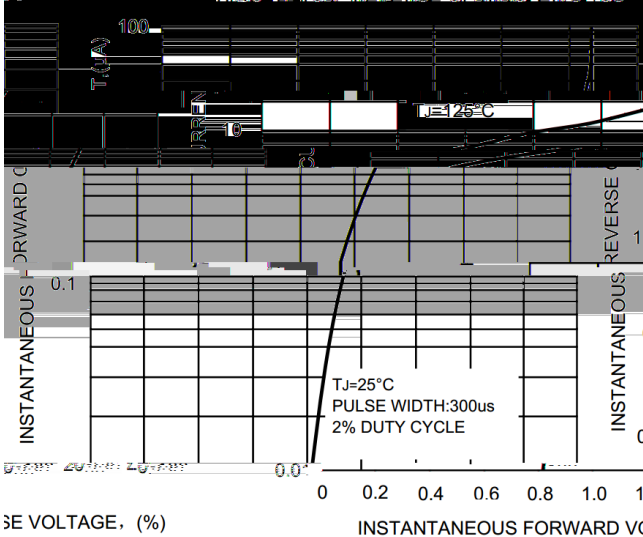


FIG.4-TYPICAL FORWARD CHARACTERISTICS

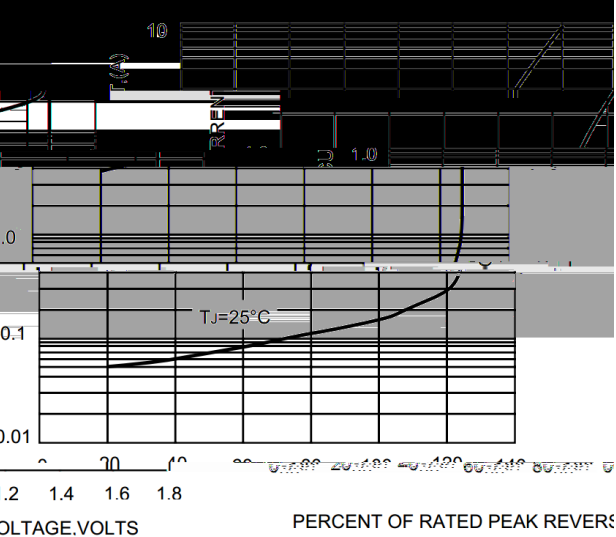
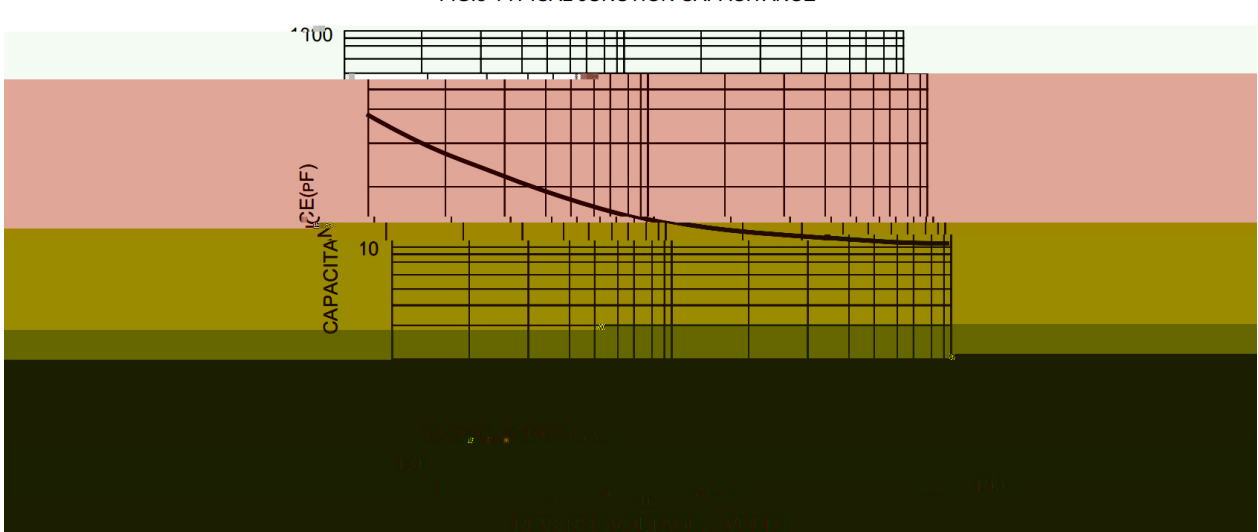


FIG.5-TYPICAL JUNCTION CAPACITANCE



MB05F10-34~MB10F10-34

Rev.A Nov.-2025



DATA SHEET

/ Marking Instructions



MB05F

Note:

MB05F

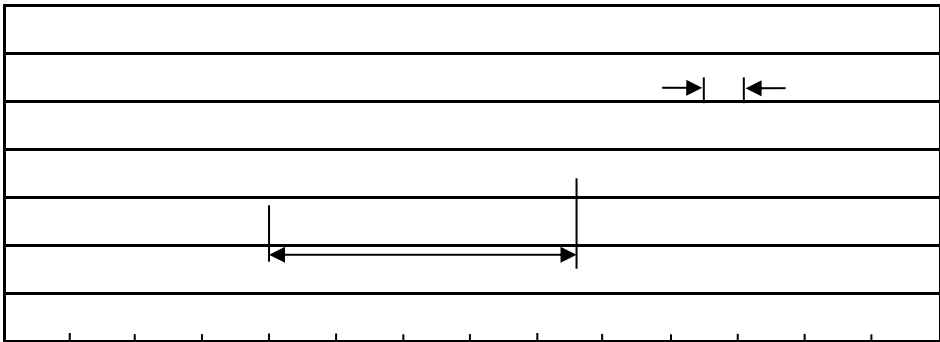
Product Type Code

Lot No. Code, code change with Lot No.

Marking

Type number	Marking code
MB05F10-34	MB05F
MB1F10-34	MB1F
MB2F10-34	MB2F
MB4F10-34	MB4F
MB6F10-34	MB6F
MB8F10-34	MB8F
MB10F10-34	MB10F

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



- Note:
- 1

150 180

60 90sec;

2

245±5

5±0.5sec;
- 3

2 10 /sec.
- 1.Preheating:150~180 , Time:60~90sec.

2.Peak Temp.:245±5 , Duration:5±0.5sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
MBF	5,000	2	10,000	7	70,000	13 ×12	336×336×40	380×335×366

/ Notices