

MB005F THRU MB10F

Glass Passivated Bridge Rectifiers

Features

- * Ideal for surface mount application
- * The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- * Surge overload ratings to 30 amperes
- * High temperature soldering guaranteed 260 °C/10 seconds at 5 lbs (2.3kg) tension







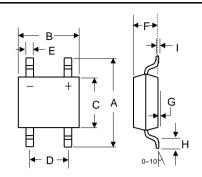
Mechanical Data

* Case: Molded plastic

* Terminals: Plated leads solderable per MIL-STD-202, Method 208

* Polarity: Polarity as marked on the body

* Mounting Position: Any



MBF							
DIM.	INC	CHES	MM				
	MIN	MAX	MIN	MAX			
Α	0.258	0.276	6.55	7.05			
В	0.177	0.193	4.50	4.90			
С	0.142	0.157	3.60	4.00			
D	0.095	0.105	2.34	2.74			
Е	0.019	0.031	0.40	0.80			
F	0.047	0.063	1.20	1.60			
G		0.008		0.20			
Н	0.024	0.043	0.61	1.01			
ı	0.006	0.014	0.15	0.25			

Maximum Ratings and Electrical Characteristics (TA=25℃ unless otherwise noted)

Type Number	Symbol	MB005F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	Unit
Maximum Repetitive Peak Reverse Voltage		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 On glass-epoxy P.C.B. On aluminum substrate		0.5 0.8							А
Peak Forward Surge Current 8.3ms single half sinewave superimposed on rated load		30							Α
Maximum Instantaneous Forward Voltage (Note 1) IF= 0.4 A		1.0						٧	
Maximum DC Reverse Current T _J =25°C at rated DC blocking voltage T _J =125°C					5 100				μΑ
Typical thermal resistance (Note 3)		20 85						°C/W	
Typical junction capacitance per element(Note2)		13						pF	
Rating for fusing (t<8.3ms)		5.08						A ² sec	
Operating junction and storage temperature range		-55 to +150						°C	

Note: 1 Pulse Test with PW=300µs,1% Duty Cycle

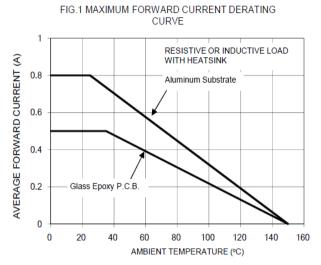
- 2. Measure at 1.0MHz and Applied Reverse Voltage of 4.0 Volts D.C.
- 3. On glass epoxy P.C.B. mounted on 0.05" x 0.05" (1.3mm x 1.3mm) pads

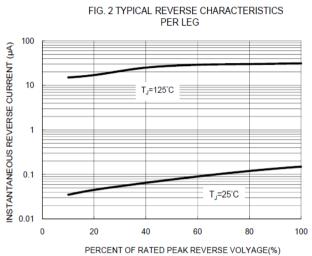
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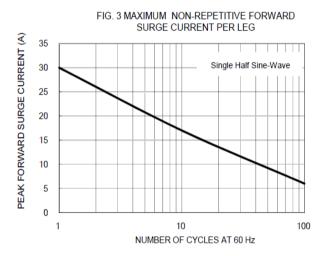


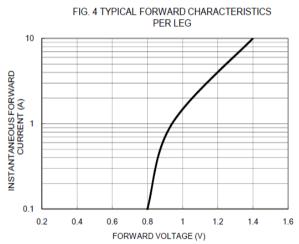
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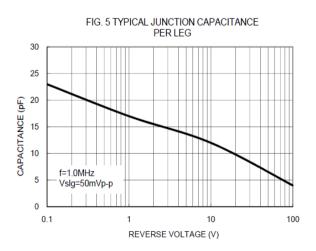
Ratings and Characteristic Curves











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Ordering Information

Part No.	Package	Packing Code	Packing
MB005F THRU MB10F	MBF	R50	5000pcs/Reel

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