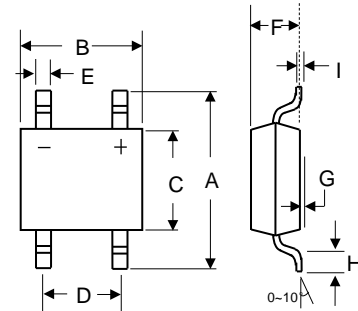


Features

- * 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



RoHS
COMPLIANT



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

DIM.	MBF			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.258	0.276	6.55	7.05
B	0.177	0.193	4.50	4.90
C	0.142	0.157	3.60	4.00
D	0.095	0.105	2.34	2.74
E	0.019	0.031	0.40	0.80
F	0.047	0.063	1.20	1.60
G	---	0.008	---	0.20
H	0.024	0.043	0.61	1.01
I	0.006	0.014	0.15	0.25

Maximum Ratings and Electrical Characteristics (T_A=25°C unless otherwise noted)

Type Number	Symbol	MB005F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	Unit
Maximum Repetitive 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 On glass-epoxy P.C.B. On aluminum substrate	I _F	0.5 0.8							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30							A
Maximum Instantaneous Forward Voltage (Note 1) I _F = 0.4 A	V _F	1.0							V
Maximum DC Reverse Current T _J =25°C at rated DC blocking voltage T _J =125°C	I _R	5 100							μA
Typical thermal resistance (Note 3)	R _{θJL} R _{θJA}	20 85							°C/W
Typical junction capacitance per element(Note2)	C _J	13							pF
Rating for fusing (t<8.3ms)	I ² t	5.08							A ² sec
Operating junction and storage temperature range	T _J / T _{STG}	-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

Ratings and Characteristic Curves

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

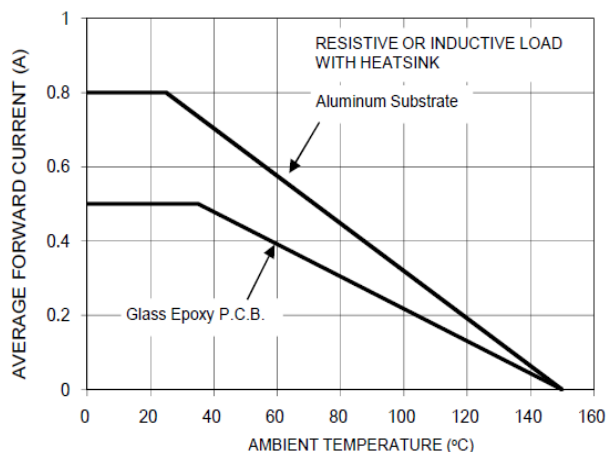


FIG. 2 TYPICAL REVERSE CHARACTERISTICS PER LEG

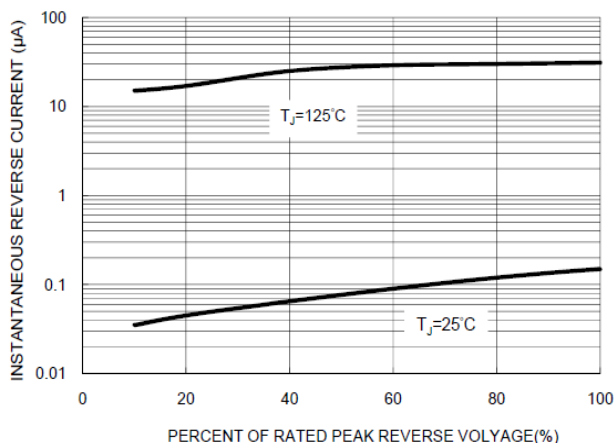


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

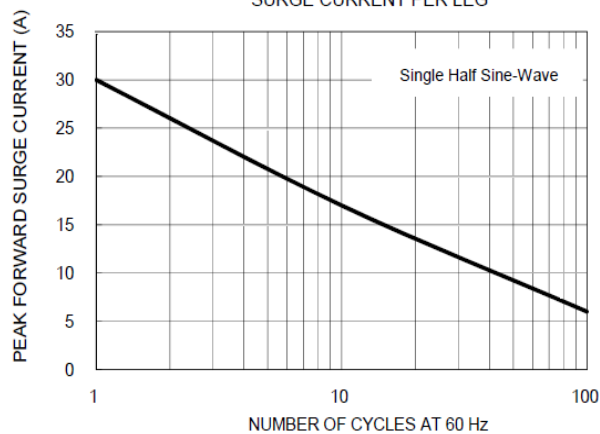


FIG. 4 TYPICAL FORWARD CHARACTERISTICS PER LEG

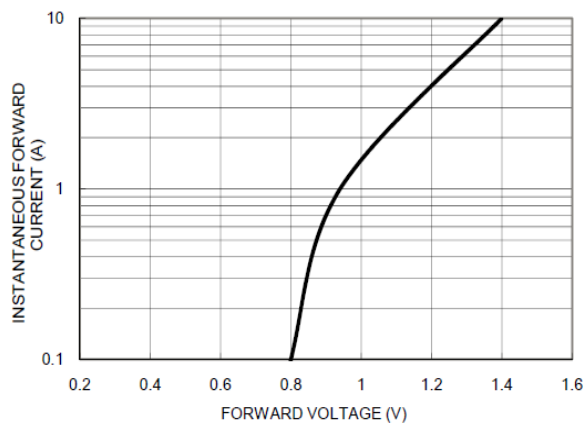
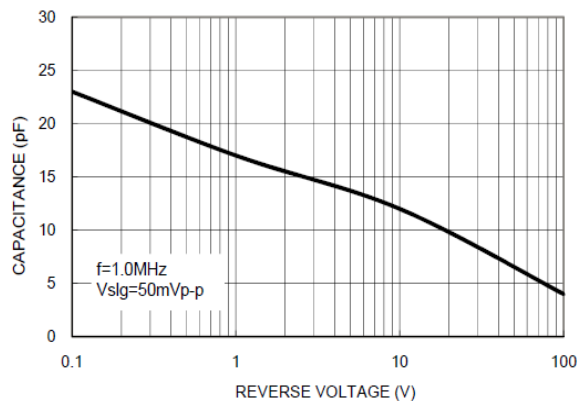


FIG. 5 TYPICAL JUNCTION CAPACITANCE PER LEG





MB005F THRU MB10F

Glass Passivated Bridge Rectifiers

Ordering Information

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

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