

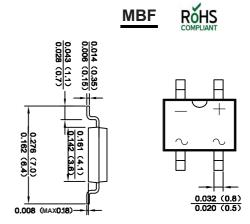
MB05F THRU MB10F

Voltage Range - 50 to 1000 Volts Current - 0.8 Ampere

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

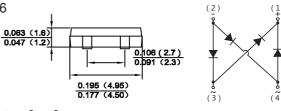
Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0



Mechanical Data

Case : JEDEC MBF Molded plastic body Terminals : Solder plated, solderable per MIL-STD-750, Method 2026 Polarity : Polarity symbol marking on body Mounting Position : Any Weight : 0.0026 ounce, 0.075 grams



Dimensions in inches and (millimeters)



Maximum Ratings And Electrical Characteristics

Ratings at 25 °C ambient temperature unle ss otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	- SYMBOLS	MDD MB05F	MDD MB1F	MDD MB2F	MDD MB4F	MDD MB6F	MDD MB8F	MDD MB10F	UNITS
Marking Code									
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at Tc=30°C On glass-epoxy P.C.B. On aluminum substrate	lf(AV)				0.5 0.8				A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	30					A		
Maximum instantaneous forward voltage drop per leg at 1A	Vf	1.1					V		
Maximum DC reverse currentTa=25℃at rated DC blocking voltageTa=100℃	lr	5 500						uA	
Typical junction capacitance NOTE3	CJ	13					PF		
Typical thermal resistance	R∂ja	60						°C/W	
Operating temperature range	TJ	-55 to +150						°C	
storage temperature range	Тѕтс			-5	5 to +150				°C

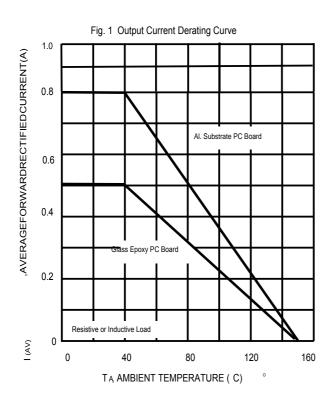
NOTES:1.On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads 2.On aluminum substrate P.C.B. with on area of 0.8"x0.8"(20x20mm) mounted on 0.05X0.05"(1.3X1.3mm) solder pad 3.Measured at 1.0MHz and applied reverse voltage of 4.0 volts.

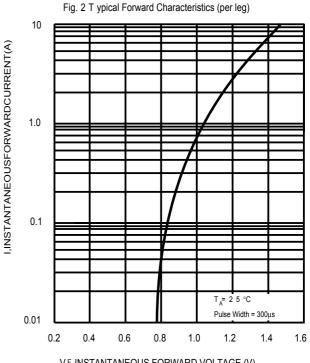


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Ratings And Characteristic Curves







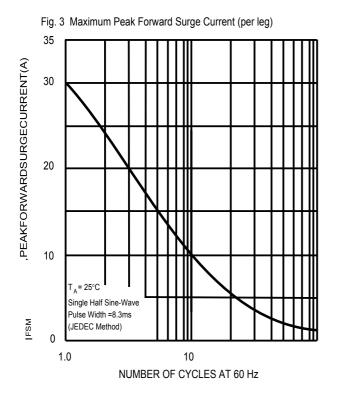
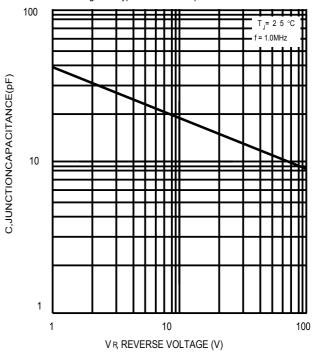


Fig. 4 T ypical Junction Capacitance



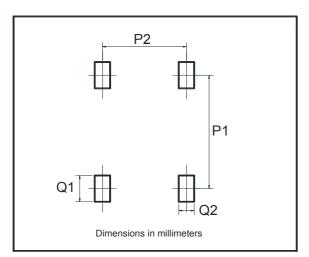
The curve above is for reference only.



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Suggested Pad Layout



Dim	Min
P1	6.00
P2	2.40
Q1	1.84
Q2	1.20

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