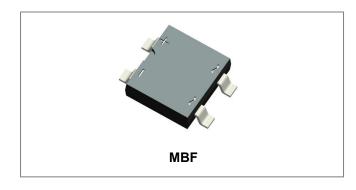






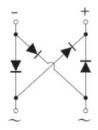
MB05F THRU MB10F SINGLE PHASE 0.8AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER



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
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: MBF, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-202,
- Method 208
- · Polarity: as marked on case
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version

Maximum Ratings @T_A=25°C unless otherwise specified

Type Number	Symbol	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	Units
Peak Repetitive Reverse Voltage DC Blocking Voltage	V _{RRM} V _{DC}	50	100	200	400	600	800	1000	٧
RMS Voltage	V _{RMS}	35	70	140	280	420	480	700	V
Average Rectified Output Current (Note1)@T _A =40°C (Note 2)@T _A =40°C	lo				0.5 0.8				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30						Α	

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Electrical Characteristics:@TA=25°C unless otherwise specified

Type Number	Symbol	MB05F MB1F	MB2F M	MB6F	MB8F N	MB10F	Units
Forward Voltage per element @I _F =0.8A	V_{FM}		1.	.1			V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _R		50 50	5 00			μA
Typical Junction Capacitance (Note 3)	Cj		1	13			pF

^{*} Pulse width < 300 μ s, duty cycle < 2%

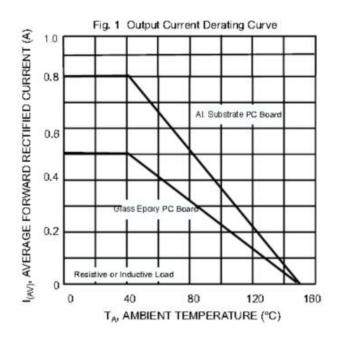
Thermal-Mechanical Specifications:@TA=25°C unless otherwise specified

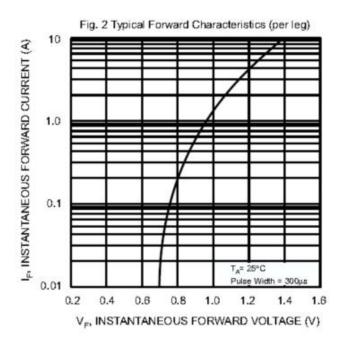
Type Number	Symbol	MB05F	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	Units
Tunical Thomas Desistance non les	$R_{\theta JA}$	60						°C/W	
Typical Thermal Resistance per leg	$R_{\theta JL}$	16							C/VV
Operating Junction and Storage Temperature Range	T_{J} , T_{STG}	-55+150					°C		

Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad..

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal REsistance From Junction to Ambient

Ratings and Characteristics Curves



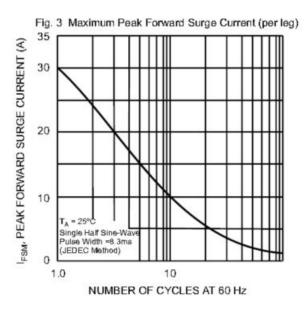


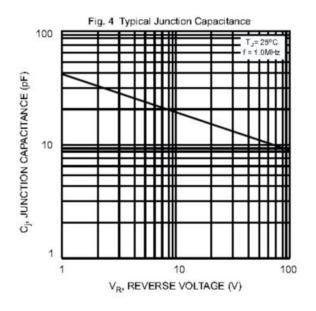
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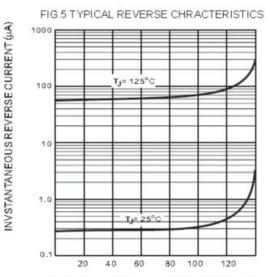












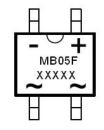
PERCENT OF RATED PEAK INVERSE VOLTGE (V)

Ordering Information

Device	Package	Plating	Shipping
MB05F THRU MB10F	MBF (Pb-Free)	Pure Sn	5000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where XXXXX is YYWWL

MB05F = Type Number = Year WW = Week = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

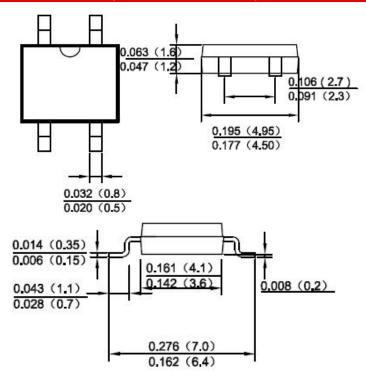
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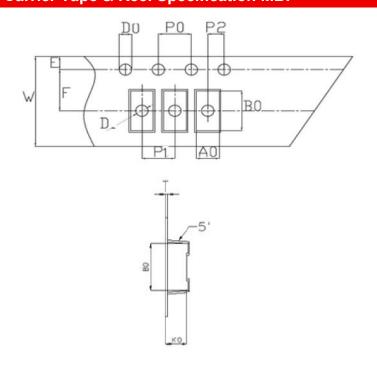




Mechanical Dimensions MBF(Inches/Millimeters)



Carrier Tape & Reel Specification MBF



SYMBOL	Millimeters					
STWIBOL	Min.	Max.				
A0	5.21	5.41				
В0	7.10	7.30				
D0	1.50	1.60				
D1	1.40	1.60				
P0	3.90	4.10				
P1	7.90	8.10				
P2	1.95	2.05				
E	1.65	1.85				
K0	1.55	1.75				
F	5.45	5.55				
W	11.90	12.10				
Т	0.24	0.30				
10P0	39.80	40.20				

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