

MB05FU THRU MB10FU

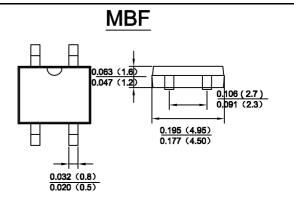
SINGLE PHASE 1.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

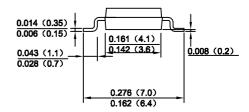
Features

- · 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

Mechanical Data

- · Case: MB-F, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- · Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- · Lead Free: For RoHS / Lead Free Version,





Dimiensions in inches and (milimenters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

TYPE NUMBER	SYMBOL	MB05FU	MB1FU	MB2FU	MB4FU	MB6FU	MB8FU	MB10FU	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	50	100	200	400	600	800	1000	V
	VRWM								
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum average forward rectified current @Ta=40 $^{\circ}$ C	lo	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	35							А
Forward Voltage per element @IF=1.0A	VFM	1.1							V
Peak Reverse Current @T _A =25 ℃ At Rated DC Blocking Voltage @T _A =125 ℃	lr	5.0 500							uA
Typical Junction Capacitance per leg (Note 1)	CJ	25							pF
Typical Thermal Resistance per leg (Note 2)	Rеја	60							°C/W
	Rejl	16							
Operating and Storage Temperature Range	Т _Ј ,Тѕтс	-55to+150							$^{\circ}$ C

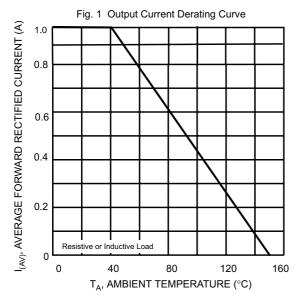
Note:1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C. $\,$

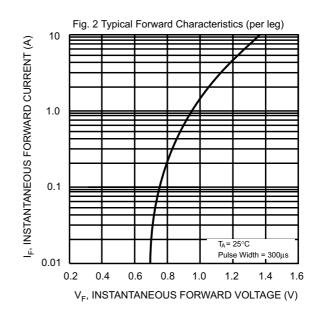
2.Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with 0.5×0.5"(13×13mm)copper pads.

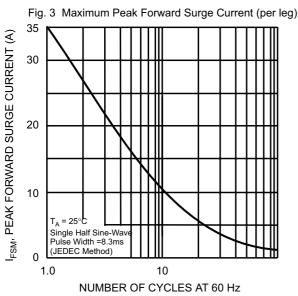
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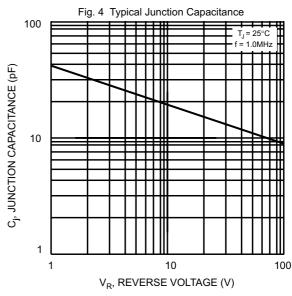


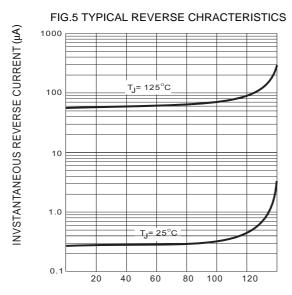
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PERCENT OF RATED PEAK INVERSE VOLTGE (V)