

EMB1FU THRU EMB6FU

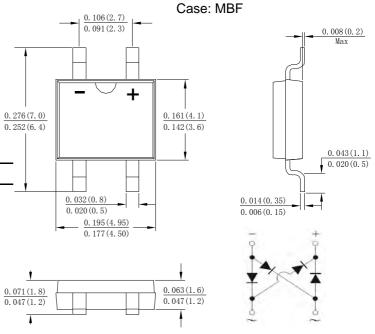
Single Phase 1.0AMP Super Fast Glass Passivated Bridge Rectifier

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,



dimensions in inches and (millimeters)

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	EMB1FU	EMB2FU	EMB3FU	EMB4FU	EMB6FU	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	100	200	300	400	600	V
	VRWM						
	VDC						
RMS Reverse Voltage	VRMS	70	140	210	280	420	V
Maximum average forward rectified current @Tc=100 $^{\circ}\mathrm{C}$	IF(AV)	1.0					Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	lfsм	35					Α
I ² t Rating for Fusing (t < 8.3ms)	l²t	5.083					A ² s
Forward Voltage per element @IF=1.0A	VFM	0.95 1.25		1.7	V		
Peak Reverse Current @T _J =25 ℃ At Rated DC Blocking Voltage @T _J =125 ℃	lR	5.0 100					uA
Maximum reverse recovery time (Note 1)	Trr	35					nS
Typical Junction Capacitance (Note 2)	CJ	22					pF
Typical Thermal Resistance	Røja	60					°C/W
	Røjl	16					
Operating and Storage Temperature Range	Т _Ј ,Тѕтс	-55to+150					$^{\circ}$ C

Note:1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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IFSM, Peak Forward Surge Current (A)

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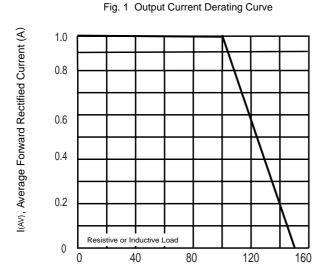


Fig. 3 Maximum Peak Forward Surge Current

T_C, Case Temperature(° C)

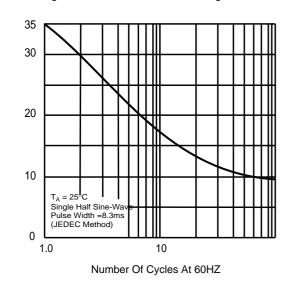


Fig. 5 Typical Reverse Characteristics

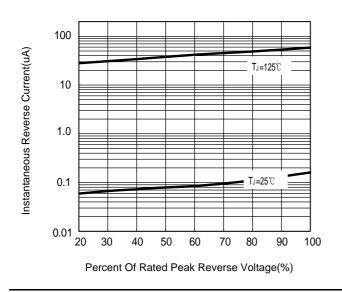


Fig. 2 TypicalForwardCharacteristics

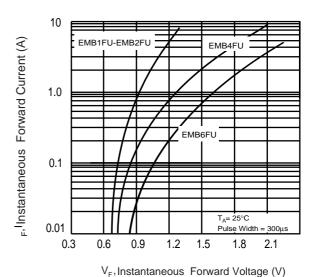


Fig. 4 Typical Junction Capacitance

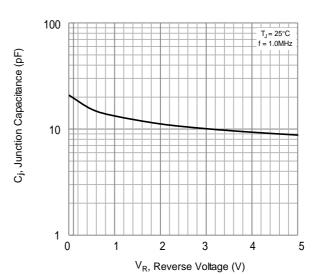
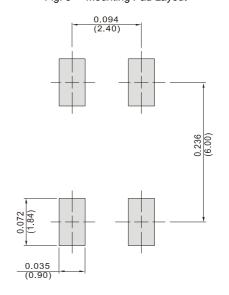


Fig. 6 Mounting Pad Layout



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