

UMB1FU THRU UMB10FU

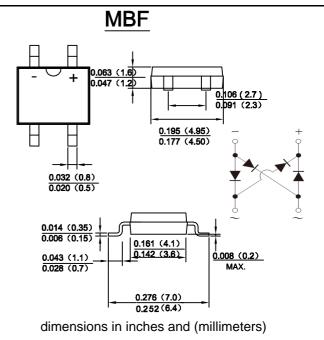
SINGLE PHASE 1.0AMP ULTRA FAST GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit board
- Surge overload rating-35A peak
- 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,



Maximum Ratings and Electrical Characteristics

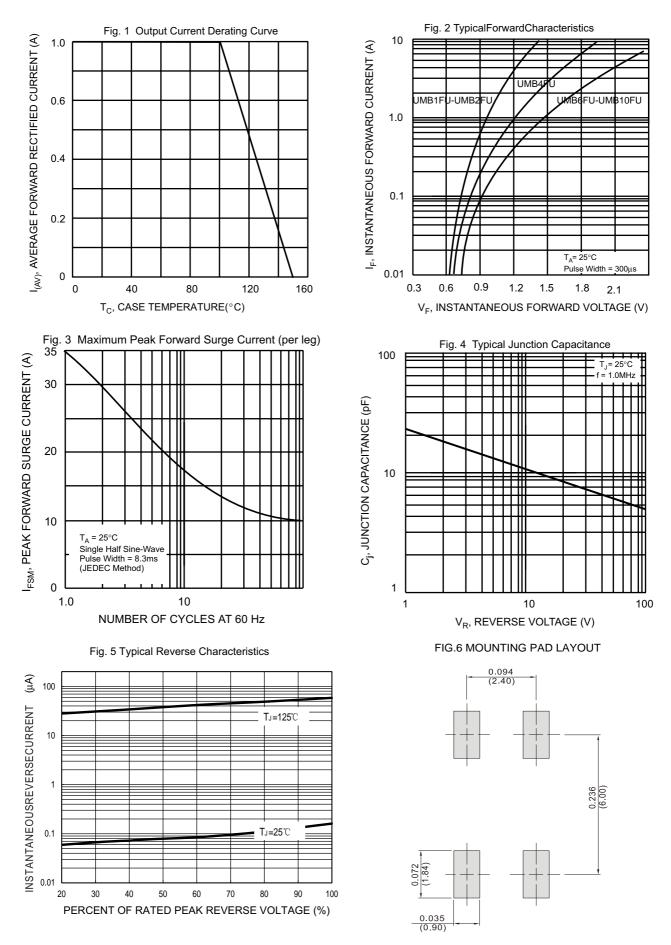
Rating at 25° C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	UMB1FU	UMB2FU	UMB4FU	UMB6FU	UMB8FU	UMB10FU	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm	100	200	400	600	800	1000	v
	VRWM							
	VDC							
RMS Reverse Voltage	Vrms	70	140	280	420	560	700	V
Maximum average forward rectified current@Tc=100 $^\circ$ C	IF(AV)	1.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	35					A	
$I^{2}t$ Rating for Fusing (t < 8.3ms)	l²t	5.083						A ² s
Forward Voltage per element @IF=1.0A	Vfm	1.0		1.3	1.7			V
Peak Reverse Current @TJ=25℃ At Rated DC Blocking Voltage @TJ=125℃	IR	5.0 100					uA	
Maximum reverse recovery time (Note 1)	T _{RR}	50		75		ns		
Typical Junction Capacitance (Note2)	CJ	15					pF	
Typical Thermal Resistance	Reja	60						°C/W
	Rejl	16						
Operating and Storage Temperature Range	Тյ,Tsтg	-55to+150						°C

Note: 1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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