

UMB1M THRU UMB10M

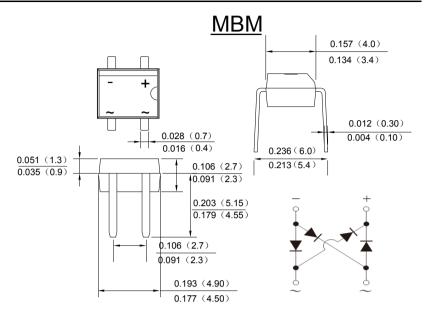
SINGLE PHASE 0.8AMP ULTRA FAST GLASS PASSIVATED BRIDGE RECTIFIER

Features

- · Glass Passivated Die Construction
- · Low leakage
- · Ideal for printed circuit board
- Surge overload rating-30A peak
- Designed for Surface Mount Application
- · Plastic Material-UL Flammability 94V-0

Mechanical Data

- Case:Reliable low cost construction utilizing molded plastic technique
- Terminals:Plated Leads Solderable per MIL-STD-202.Method208
- · Polarity: As Marked on Case
- Mounting Position: Any
- Marking:Type Number



dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

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TYPE NUMBER	SYMBOL	UMB1M	UMB2M	UMB4M	UMB6M	UMB8M	UMB10M	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	100 20	200	200 400	600	800	1000	
	VRWM							V
	VDC							
RMS Reverse Voltage	VRMS	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=100℃ (Note 2)@Tc=100℃	IF(AV)	0.5 0.8						Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsм	30						Α
I ² t Rating for Fusing (t < 8.3ms)	l²t	3.735					A ² s	
Forward Voltage per element @IF=0.8A	VFM	1	1.0 1.3 1.7			V		
Peak Reverse Current @T _A =25℃ At Rated DC Blocking Voltage @T _A =125℃	lr	5.0 200					uA	
Maximum reverse recovery time (Note 3)	T _{RR}	50 75				75	ns	
Typical Junction Capacitance per leg (Note 4)	Сл	13						pF
Typical Thermal Resistance per leg	RөJA	60						°C/W
	Rejl	16						
Operating and Storage Temperature Range	Т _J ,Тsтg	-55to+150						$^{\circ}$ C

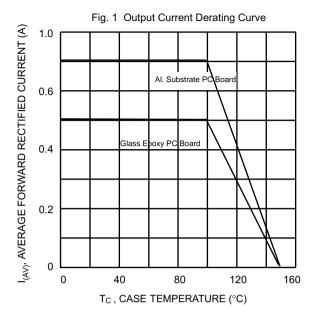
Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

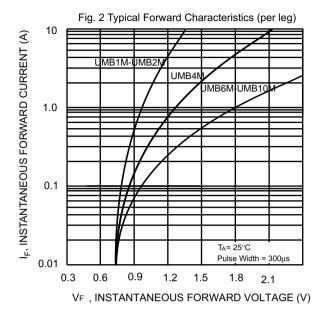
- 2. Mounted on aluminum substrate PC board with 1.3mm² solder pad.
- 3. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A.
- 4. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

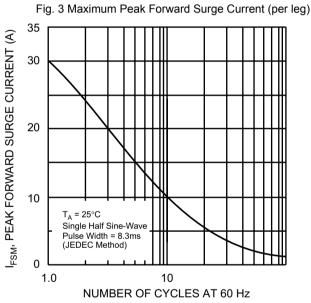
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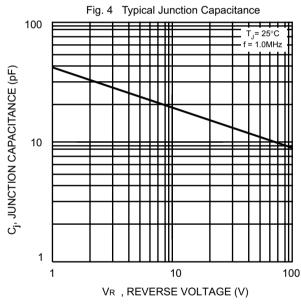


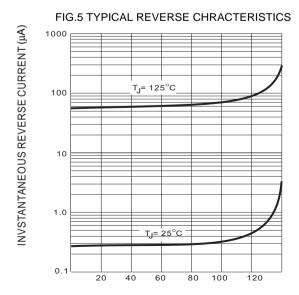
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PERCENT OF RATED PEAK INVERSE VOLTGE (V)



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