

UMB1S THRU UMB10S

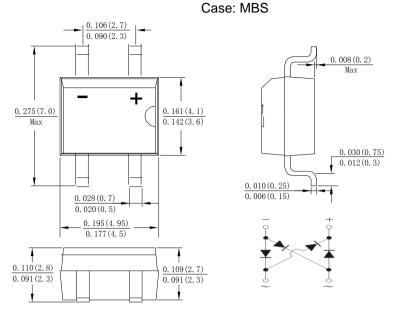
Single Phase 0.8AMP Ultra Fast Glass Passivated Bridge Rectifier

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

For capacitive load, derate current by 20%.

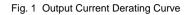
TYPE NUMBER	SYMBOL	UMB1S	UMB2S	UMB4S	UMB6S	UMB8S	UMB10S	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM	100	200	400	600	800	1000	٧
	VRWM							
	VDC							
RMS Reverse Voltage	VRMS	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=100° (Note 2)@Tc=100°C	C IF(AV)	0.5 0.8						А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	30						А
I ² t Rating for Fusing (t < 8.3ms)	l²t	3.735					A ² s	
Forward Voltage per element @IF=0.8A	VFM	1	.0	1.3 1.7			V	
Peak Reverse Current @TJ=25℃ At Rated DC Blocking Voltage @TJ=125℃	lR	5.0 100					uA	
Maximum reverse recovery time (Note 3)	T _{RR}	50 75				75	ns	
Typical Junction Capacitance (Note 4)	Сл	13					pF	
Typical Thermal Resistance	RөJA	60						°C/W
	Rejl	16						
Operating and Storage Temperature Range	Т _J ,Т _{STG}	-55to+150						$^{\circ}$

Note: 1. Mounted on glass epoxy PC board with 1.3mm 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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IFSM, Peak Forward Surge Current (A)



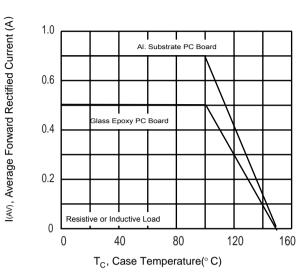


Fig.3 Maximum Peak Forward Surge Current

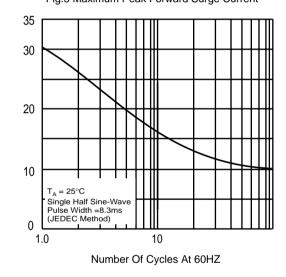


Fig.5 Typical Reverse Characteristics

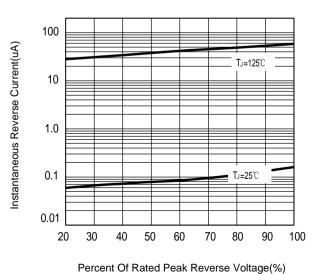


Fig. 2 Typical Forward Characteristics

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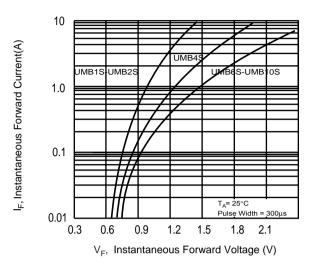
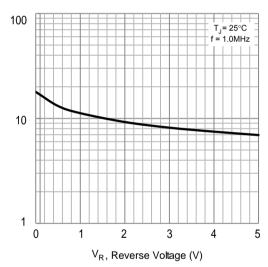
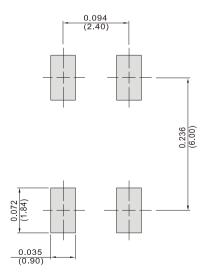


Fig. 4 Typical Junction Capacitance



C, Junction Capacitance (pF)

Fig.6 Mounting Pad Layout



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