

UMB1S THRU UMB10S

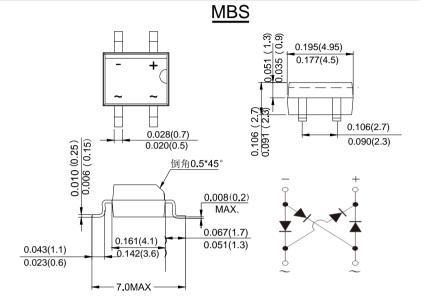
SINGLE PHASE 0.8AMP ULTRA FAST GLASS PASSIVATED BRIDGE RECTIFIER

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	V
	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℃	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)	Іғѕм	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 @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	TJ,Tstg	-55to+150						$^{\circ}\!\mathbb{C}$

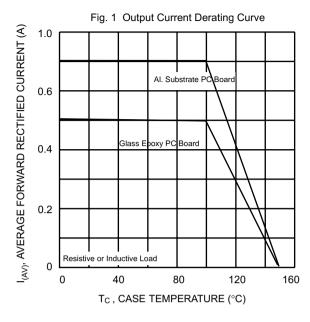
Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

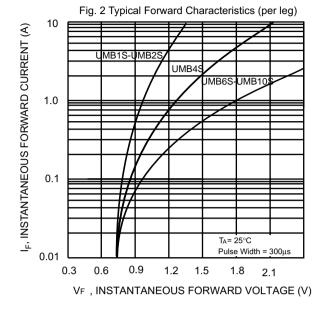
- 2. Mounted on aluminum substrate PC board with 1.3mm² solder pad.
- 3. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A.
- 4. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

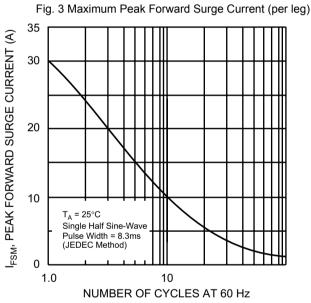
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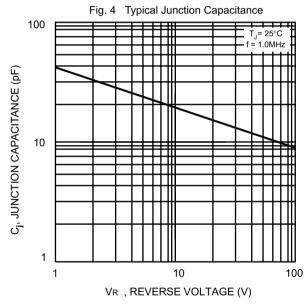


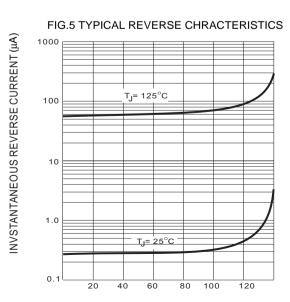
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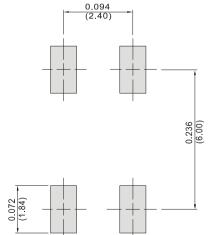


FIG.6 MOUNTING PAD LAYOUT

PERCENT OF RATED PEAK INVERSE VOLTGE (V)



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