# Zibo Seno Electronic Engineering Co., Ltd.



# UMB05F - UMB10F

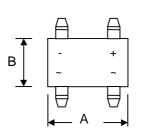


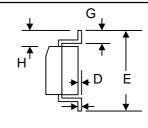


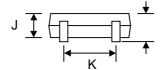
#### 1.0A ULTRA FAST SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

#### **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-O







### **Mechanical Data**

Case: MB-F, Molded Plastic

Terminals: Plated Leads Solderable per
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MIL-STD-202, Method 208
Polarity: As Marked on Case

Weight: 0.134 grams (approx.)

Mounting Position: AnyMarking: Type Number

Lead Free: For RoHS / Lead Free Version

MB-F									
Dim	Min	Max							
Α	4.50	4.95							
В	3.60	4.10							
С	0.15	0.35							
D		0.20							
Е	6.40	7.00							
G	0.50	1.10							
H	1.30	1.70							
J	1.20	1.60							
K	2.30	2.70							
L	_	1.80							
All Dimensions in mm									

## Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	UMB 05F	UMB 1F	UMB 2F	UMB 4F	UMB 6F	UMB 8F	UMB 10F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) $@T_A = 40^{\circ}C$ Average Rectified Output Current (Note 2) $@T_A = 40^{\circ}C$	lo	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	35							А
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	5.0							A <sup>2</sup> s
Forward Voltage per element @I <sub>F</sub> = 1.0A	VFM	1.0 1.3			1.7			V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	IRM	5.0 500							μA
Reverse Recovery Time (Note 4)	trr	50 75						nS	
Typical Junction Capacitance per leg (Note 3)	Cj	13							pF
Typical Thermal Resistance per leg (Note 1)	RθJA RθJL	62.5 25							°C/W
Operating and Storage Temperature Range	Тj, Тsтg	-55 to +150							°C

Note: 1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

- 2. Mounted on aluminum substrate PC board with 1.3mm<sup>2</sup> solder pad.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 4. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.

UMB05F - UMB10F 1 of 2 www.senocn.com

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