### Zibo Seno Electronic Engineering Co., Ltd.



# RMB05F - RMB10F

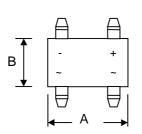


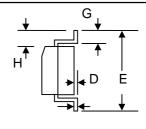


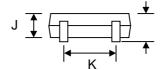
#### 1.0A FAST RECOVERY SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

#### **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 MIL-STD-202, Method 208

Polarity: As Marked on CaseWeight: 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						
Н	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 @T<sub>A</sub>=25°C unless otherwise specified

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

Characteristic	Symbol	RMB 05F	RMB 1F	RMB 2F	RMB 4F	RMB 6F	RMB 8F	RMB 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) $@T_A = 40^\circ$ Average Rectified Output Current (Note 2) $@T_A = 40^\circ$	1 10	1.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	35							Α
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> = 1.0	A VFM				1.3				V
Peak Reverse Current $@T_A = 25^\circ$ At Rated DC Blocking Voltage $@T_A = 125^\circ$	I IDM	5.0 500							μΑ
Reverse Recovery Time (Note 4)	trr	150 250 500				00	nS		
Typical Junction Capacitance per leg (Note 3)	Cj	13							pF
Typical Thermal Resistance per leg (Note 1)	R θ JA R θ JL	62.5 25							°C/W
Operating and Storage Temperature Range	Тј, Тѕтс	-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.

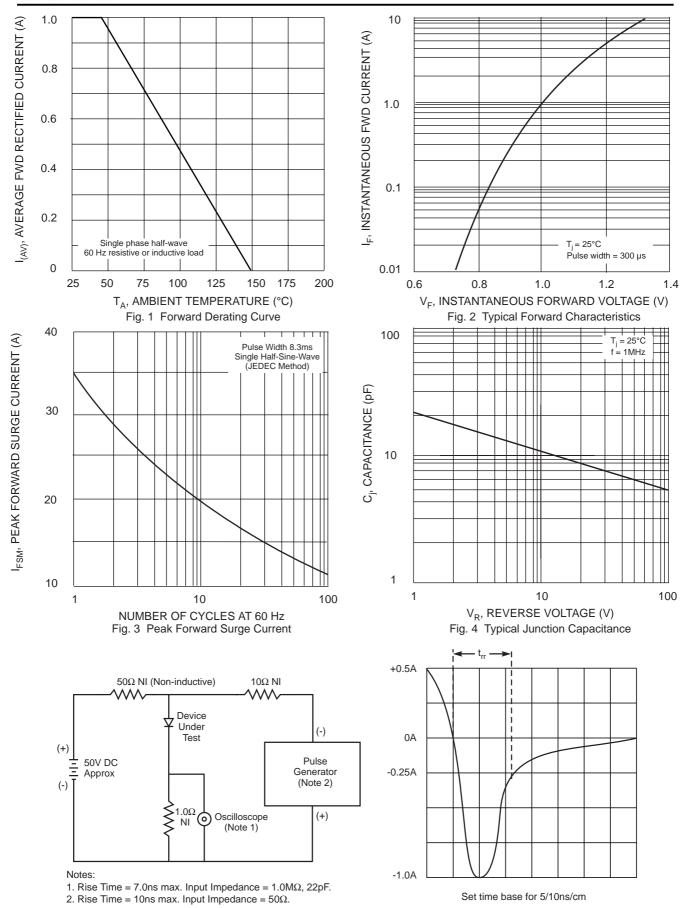
## Zibo Seno Electronic Engineering Co., Ltd.



# RMB05F – RMB10F







5 Reverse Recovery Time Characteristic and Test Circuit