

# RMB1S~RMB10S

Voltage 100V~1000V 0.8 Amp Fast Bridge Rectifiers

J

#### **RoHS Compliant Product**

# FEATURES

- Glass Passivated Die Construction
- Low Leakage
- Ideal for Printed Circuit Board
- Surge Overload Rating to 30A Peak
- Plastic Material-UL Flammability 94V-0

# **MECHANICAL DATA**

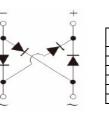
- Case: MBS, molded plastic
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: As marked on case
- Mounting Position: Any
- Marking: Type number

### PACKAGE INFORMATION

Package	MPQ	Leader Size
MBS	ЗK	13 inch

### ORDER INFORMATION

Part Number	Туре			
RMB1S~RMB10S	Lead (Pb)-free			
RMB1SH~RMB10SH	Lead (Pb)-free and Halogen-free			



Millimeter		DEE	Millimeter		
Min.	Max.	REF.	Min.	Max.	
4.50	4.95	Н	0.60	1.10	
-	7.00	J	0.50	0.84	
2.30	2.70	K	0.90	1.53	
3.60	4.20	L	0.15	0.35	
2.20	2.70	М	0.20 REF.		
1.10	2.12				
	Min. 4.50 - 2.30 3.60 2.20	Min. Max.   4.50 4.95   - 7.00   2.30 2.70   3.60 4.20   2.20 2.70	Min. Max. REF.   4.50 4.95 H   - 7.00 J   2.30 2.70 K   3.60 4.20 L   2.20 2.70 M	Min. Max. REF. Min.   4.50 4.95 H 0.60   - 7.00 J 0.50   2.30 2.70 K 0.90   3.60 4.20 L 0.15   2.20 2.70 M 0.20	

-F

MBS

# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Part Number					11	
			RMB1S	RMB2S	RMB4S	RMB6S	RMB8S	RMB10S	Unit
Peak Repetitive Reverse Voltage		Vrrm							
Working Peak Reverse Voltage		V <sub>RWM</sub>	100	200	400	600	800	1000	V
DC Blocking Voltage		V <sub>DC</sub>							
RMS Reverse Voltage		V <sub>RMS</sub>	70	140	280	420	560	700	V
Average Rectified Output Current <sup>1</sup>	<b>T</b> 40000	· .	0.5					A	
Average Rectified Output Current <sup>2</sup>	Tc=100℃	١F	0.8						
Non-Repetitive Peak Forward Surge Current @8.3ms Single half sine-wave superimposed on rated load(JEDEC Method)		IFSM	30					A	
I <sup>2</sup> t Rating for Fusing (t<8.3ms)		l <sup>2</sup> t	3.735					A <sup>2</sup> s	
Forward Voltage per element @I <sub>F</sub> =0.8A		VF	1.3					V	
Peak Reverse Current @Rated DC Blocking Voltage	T <sub>A</sub> =25℃		5					uA	
	T <sub>A</sub> =125℃	I <sub>R</sub>	200						
Maximum Reverse Recovery Time <sup>3</sup>		trr		150		250	Ę	500	nS
Typical Junction Capacitance per leg <sup>4</sup>		CJ	13					pF	
Typical Thermal Resistance per leg		R <sub>0JA</sub>	60				~~~~		
		R <sub>ejl</sub>	16					°C/W	
Operating and Storage Temperature Range		TJ,TSTG	-55~150					C	

#### Notes:

1. Mounted on glass epoxy PC board with  $1.3 \text{mm}^2$  solder pad.

2. Mounted on aluminum substrate PC board with  $1.3 \text{mm}^2$  solder pad.

3. Reverse Recovery Test Conditions:  $I_F=0.5A$ ,  $I_R=1A$ ,  $I_{rr}=0.25A$ .

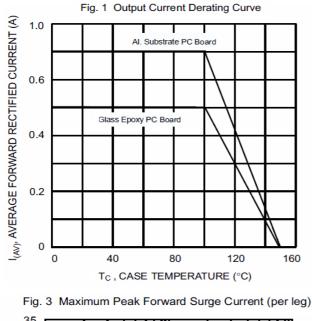
4. Measured at 1MHz and applied reverse voltage of 4V D.C.

http://www.SeCoSGmbH.com/



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# **RATINGS AND CHARACTERISTIC CURVES**



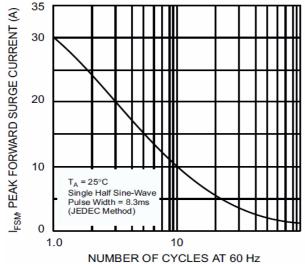


FIG.5 TYPICAL REVERSE CHRACTERISTICS

