

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

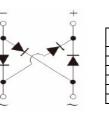
- Case: MBS, molded plastic
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: As marked on case
- Mounting Position: Any
- Marking: Type number

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 _{RWM}	100	200	400	600	800	1000	V
DC Blocking Voltage		V _{DC}							
RMS Reverse Voltage		V _{RMS}	70	140	280	420	560	700	V
Average Rectified Output Current ¹	T 40000	· .	0.5					A	
Average Rectified Output Current ²	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 ² t Rating for Fusing (t<8.3ms)		l ² t	3.735					A ² s	
Forward Voltage per element @I _F =0.8A		VF	1.3					V	
Peak Reverse Current @Rated DC Blocking Voltage	T _A =25℃		5					uA	
	T _A =125℃	I _R	200						
Maximum Reverse Recovery Time ³		trr		150		250	Ę	500	nS
Typical Junction Capacitance per leg ⁴		CJ	13					pF	
Typical Thermal Resistance per leg		R _{0JA}	60				~~~~		
		R _{ejl}	16					°C/W	
Operating and Storage Temperature Range		TJ,TSTG	-55~150					C	

Notes:

1. Mounted on glass epoxy PC board with 1.3mm^2 solder pad.

2. Mounted on aluminum substrate PC board with 1.3mm^2 solder pad.

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

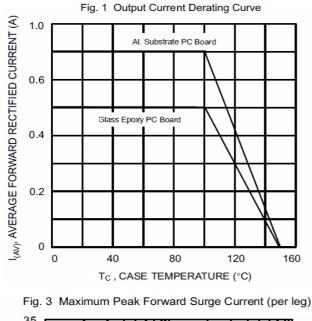
4. Measured at 1MHz and applied reverse voltage of 4V D.C.

http://www.SeCoSGmbH.com/



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RATINGS AND CHARACTERISTIC CURVES



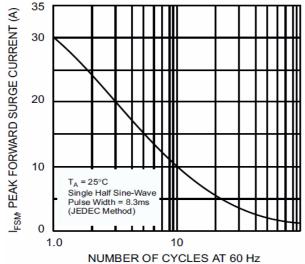


FIG.5 TYPICAL REVERSE CHRACTERISTICS

