

MB1S THRU MB10S

0.8A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

FEATURES:

- Glass Passivated Chip Junction
- Reverse Voltage 100 to 1000 V
- Forward Current 0.8 A
- High Surge Current Capability
- Designed for Surface Mount Application

MECHANICAL DATA

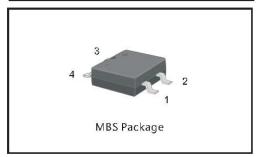
• Case: MBS

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 100mg /0.0035oz

PINNING

PIN	DESCRIPTION			
1	Input Pin (~)			
2	Input Pin (~)			
3	Output Anode (+)			
4	Output Cathode (-)			



Maximum Ratings and Electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	Units	
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage		V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at Ta = 50 °C		Io	0.8						
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)		Ifsm	30						
Maximum Forward Voltage	V_{F}	1.0						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	at 0.8 A @T _A =25 °C @T _A =125 °C	I _R	5 40					μΑ	
Typical Junction Capacitance (Notel)		Cj	13						
Typical Thermal Resistance (Note2)		$R_{\theta JA}$	95						°C/W
		R _θ л	30						
Operating and Storage Temperature Range		Tj, Tstg	-55 ∼ +150						$^{\circ}$

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

2. Mounted on glass epoxy PC board with 4×(5×5mm²) copper pad.

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Fig.1 Average Rectified Output Current Derating Curve

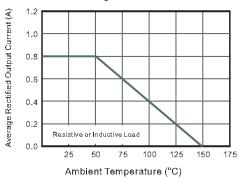


Fig.2 Typical Reverse Characteristics

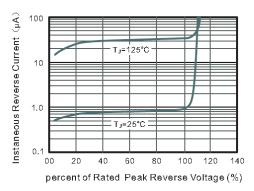


Fig.3 Typical Instaneous Forward Characteristics

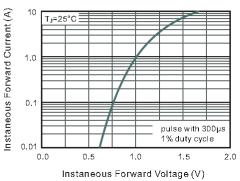


Fig.4 Typical Junction Capacitance

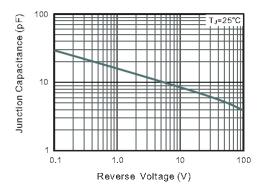
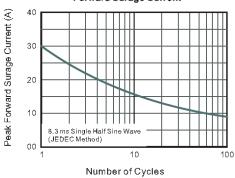


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



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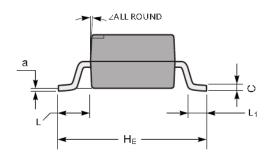


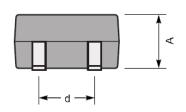
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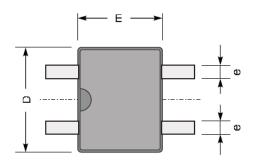
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

MBS mechanical data

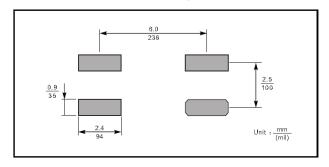






UNIT		А	С	D	E	Η _E	d	е	L	L ₁	а	2
nam	max	2.6	0.22	5.0	4.1	7.0	2.7	0.7	1.7	1.1	0.2	7°
mm	min	2.2	0.15	4.5	3.6	6.4	2.3	0.5	1.3	0.5	_	
	max	102	8.7	197	161	276	106	28	67	43	8	(
mil	min	94	5.9	177	142	252	91	20	51	20	_	

The recommended mounting pad size



Marking

Type number	Marking code				
MB1S	MB1S				
MB2S	MB2S				
MB4S	MB4S				
MB6S	MB6S				
MB8S	MB8S				
MB10S	MB10S				

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