

MB1S-TN~MB10S-TN

Surface Mount Glass Passivated Bridge Rectifiers

Features

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



MBS

1.Input Pin(~) 2.Inpu 3.Output Anode(+) 4.Outp

2.Input Pin(~) 4.Output Cathode (-)

Marking Code:

MB1S-TN: MB1S MB2S-TN: MB2S MB4S-TN: MB4S MB6S-TN: MB6S MB8S-TN: MB8S MB10S-TN: MB10S

Maximum Ratings and Electrical Characteristics

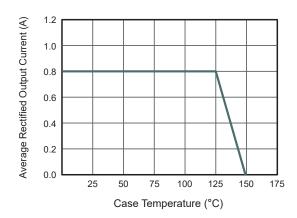
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

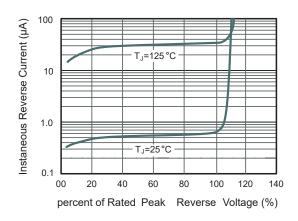
Parameter	Symbols	MB1S-PJ	MB2S-PJ	MB4S-PJ	MB6S-PJ	MB8S-PJ	MB10S-PJ	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Maximum Average Rectified Output Current at T _C =125°C	lo	0.8						
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM} 30							А
Maximum Instantaneous Forward Voltage at 0.4 A at 0.8 A	V _F 1.0 1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A = 25 ^{\circ}\text{C}$ $T_A = 125 ^{\circ}\text{C}$	I _R	5 40						
Typical Junction Capacitance Note1	C _j 13							pF
Typical Thermal Resistance Note2	R _{0JA} 90 R _{0JC} 32						°C/W	
Junction Temperature	T _J 150							°C
Storage Temperature Range	rage Temperature Range T _{STG} -55 to +150							°C

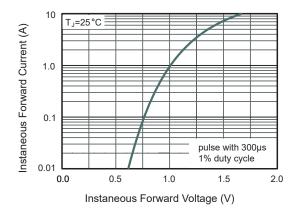
Note:

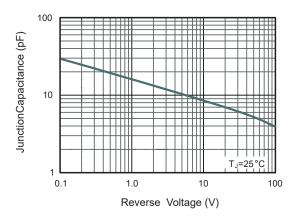
- 1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
- 2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

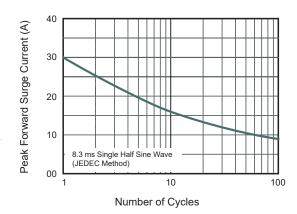
Typical Characteristic Curves



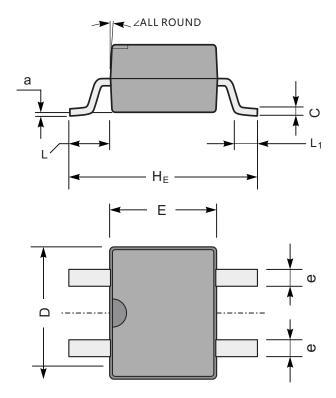


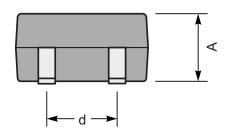






Package Outline (MBS Dimensions in mm)





MBS mechanical data

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

Contact Information

TANI website: http://www.tanisemi.com Email:tani@tanisemi.com

For additional information, please contact your local Sales Representative.



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