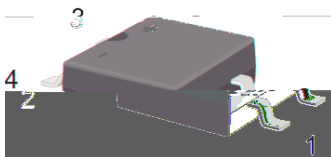
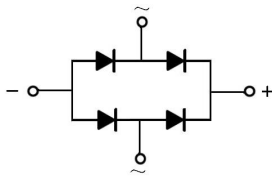


Rev.D May.-2017

1.0A MBS
 1.0A Surface Mount Glass Passivated Bridge Rectifier, MBS package.

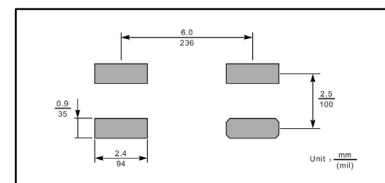
Glass Passivated Chip Junction, Reverse Voltage:100to1000V, Forward Current:1.0A, High Surge Current Capability, Designed for Surface Mount Application.Halogen free product.

General purpose.



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

The recommended mounting pad size



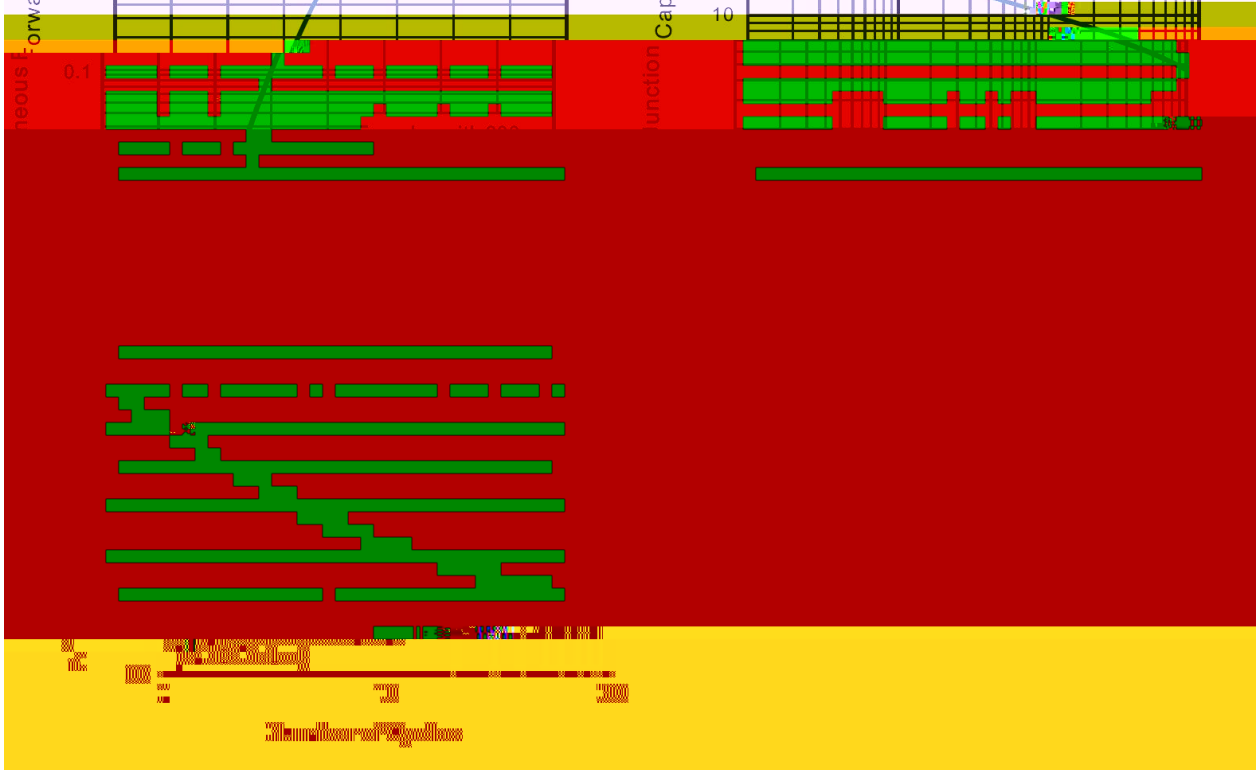
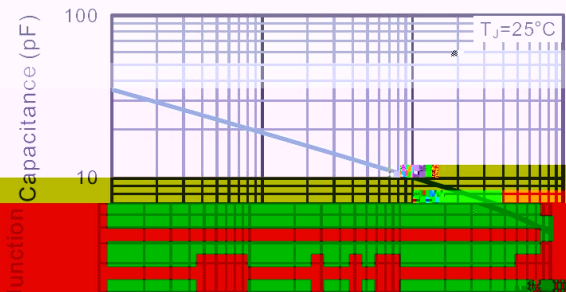
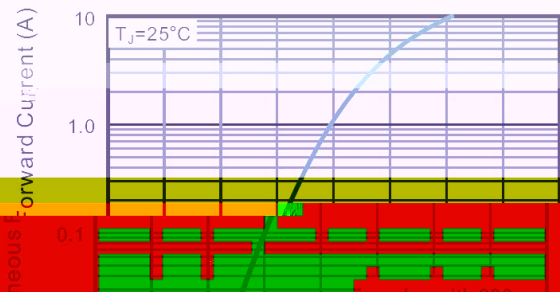
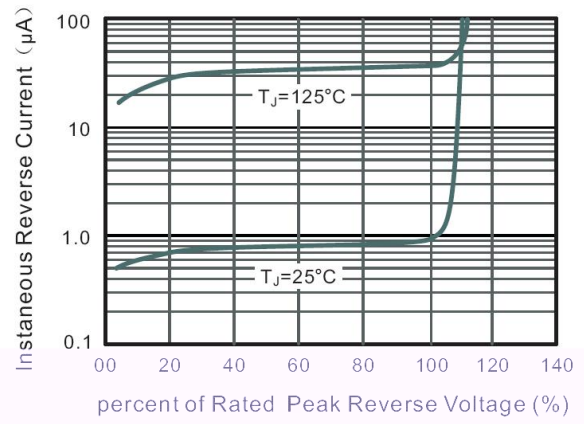
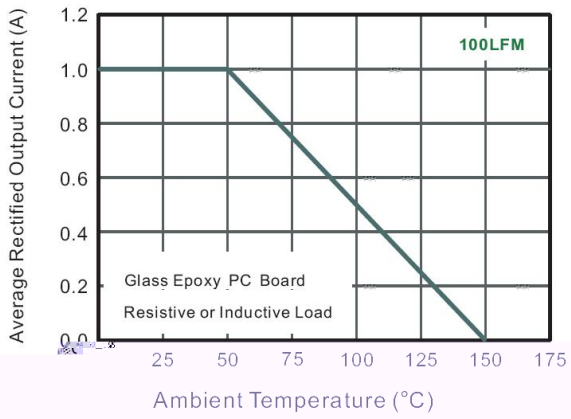
See Marking Instructions.

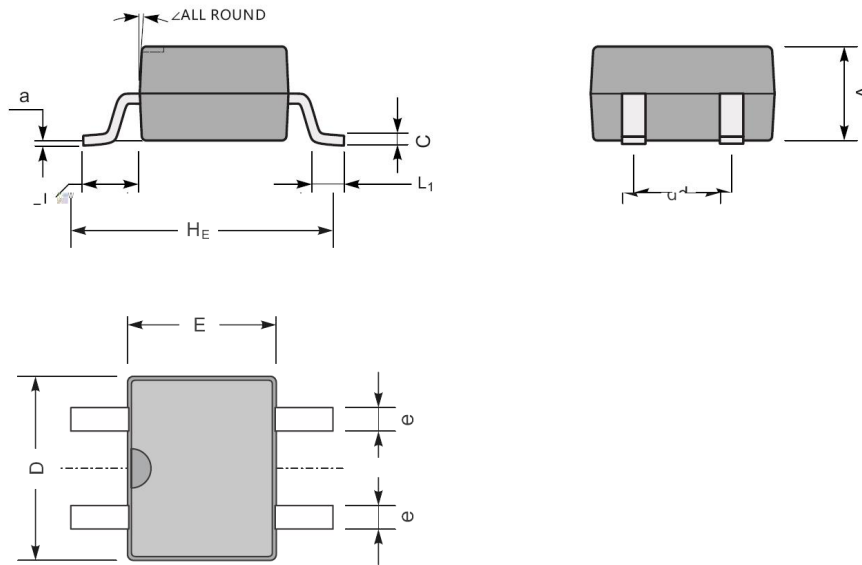
Parameter	Symbol	Rating						Unit
		MB1S-10	MB2S-10	MB4S-10	MB6S-10	MB8S-10	MB10S-10	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at $T_a = 50$	I_o	1.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	35						A
Typical Junction Capacitance <small>Note1</small>	C_j	13						pF
Typical Thermal Resistance <small>Note2</small>	R_{JA}	85						/W
Typical Thermal Resistance <small>Note2</small>	R_{JL}	30						/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150						

Note:

1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with $4 \times (5 \times 5\text{mm}^2)$ copper pad..

Parameter	Symbol	Test condition	Rating	Unit
Maximum Forward Voltage	V_F	$I_F=1.0A$	1.1	V
Maximum DC Reverse Current at Maximum DC				



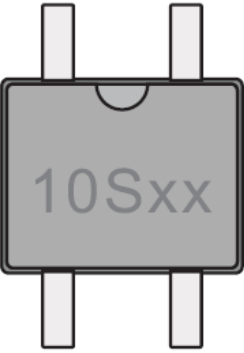
MBS


MBS mechanical data

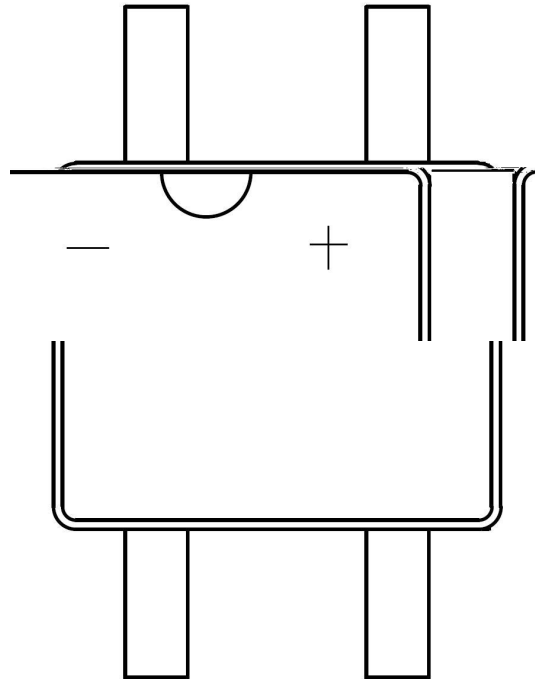
UNIT		A	C	D	E	H _E	d	e	L	L ₁	a	∠
mm	max	2.6	0.22	5.0	4.1	7.0	2.7	0.7	1.7	1.1	0.2	7°
	min	2.2	0.15	4.5	3.6	6.4	2.3	0.5	1.3	0.5	—	
mil	max	102	8.7	197	161	276	106	28	67	43	8	
	min	94	5.9	177	146	256	91	20	51	20	—	

Marking

Type number	Marking code
MB1S-10	10S1
MB2S-10	10S2
MB4S-10	10S4
MB6S-10	10S6
MB8S-10	10S8
MB10S-10	10S10



The diagram shows a rectangular component with four pins (two on top, two on bottom). A semi-circular notch is located on the top edge. The marking code "10Sxx" is printed on the front face of the component.



*

*

Note:

Product Type Code

Lot No. Code The 1st * means:YM Code The last 3 * means:little Lot

No Code

