

Rev.D May.-2017

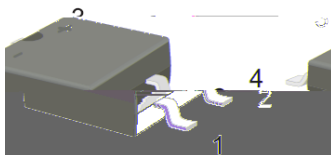
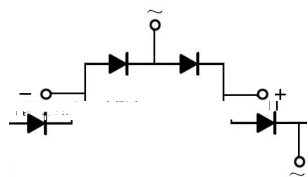
0.5A

MBS

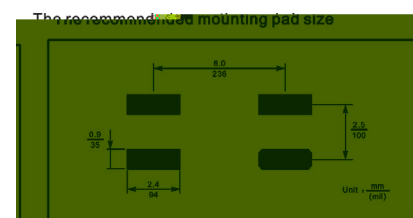
0.5A Surface Mount Glass Passivated Bridge Rectifier, MBS package.

Glass Passivated Chip Junction, Reverse Voltage:100to1000V, Forward Current:0.5 A, 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 (-)



See Marking Instructions.

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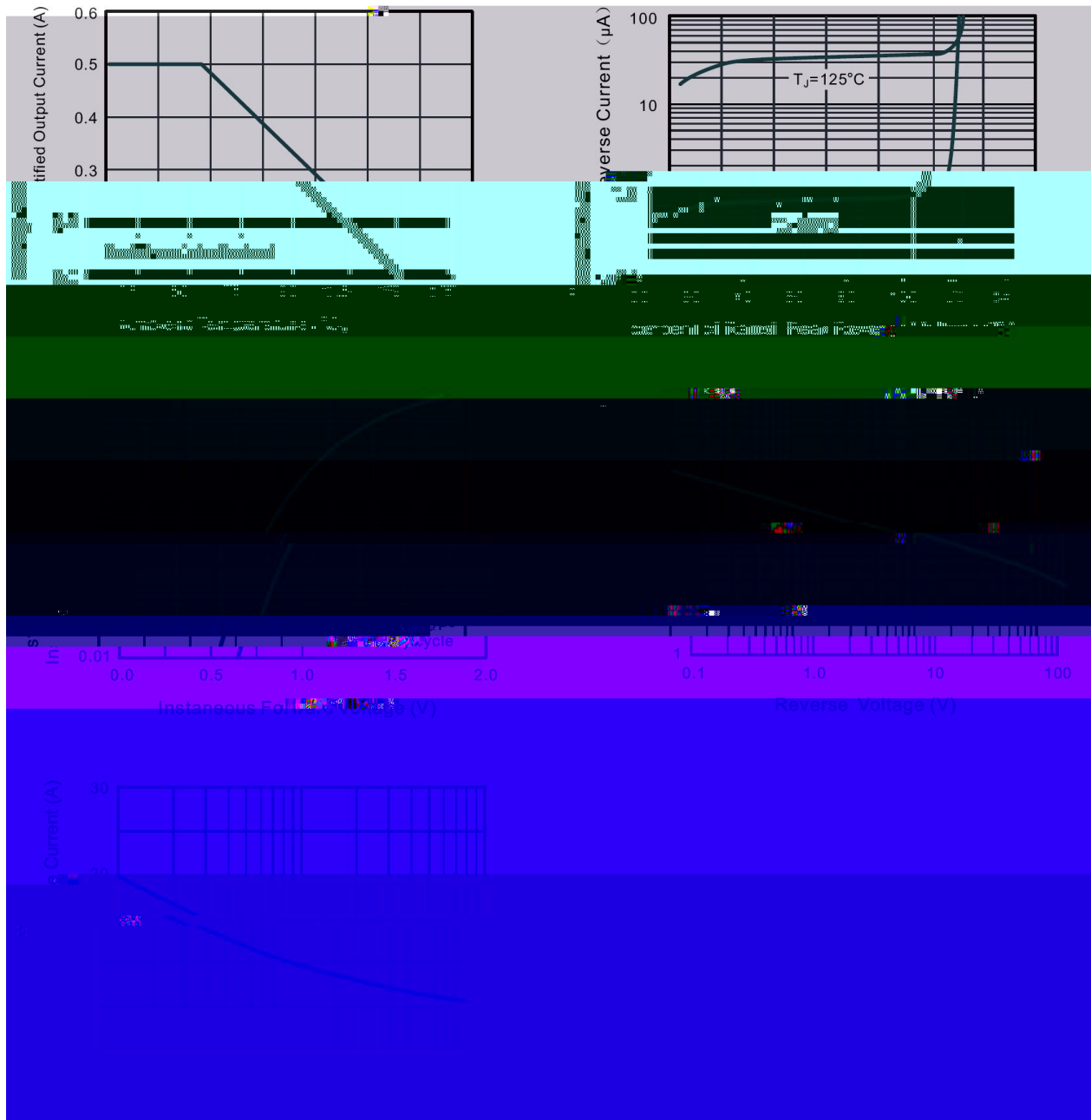
Parameter	Symbol	Rating						Unit
		MB1S-05	MB2S-05	MB4S-05	MB6S-05	MB8S-05	MB10S-05	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at $T_a = 50^\circ\text{C}$	I_o	0.5						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	20						A
Typical Junction Capacitance ^(Note1)	C_j	11						pF
Typical Thermal Resistance ^{Note2}	$R_{\theta JA}$	120						/W
Typical Thermal Resistance ^{Note2}	$R_{\theta JL}$	35						/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150						

Note:

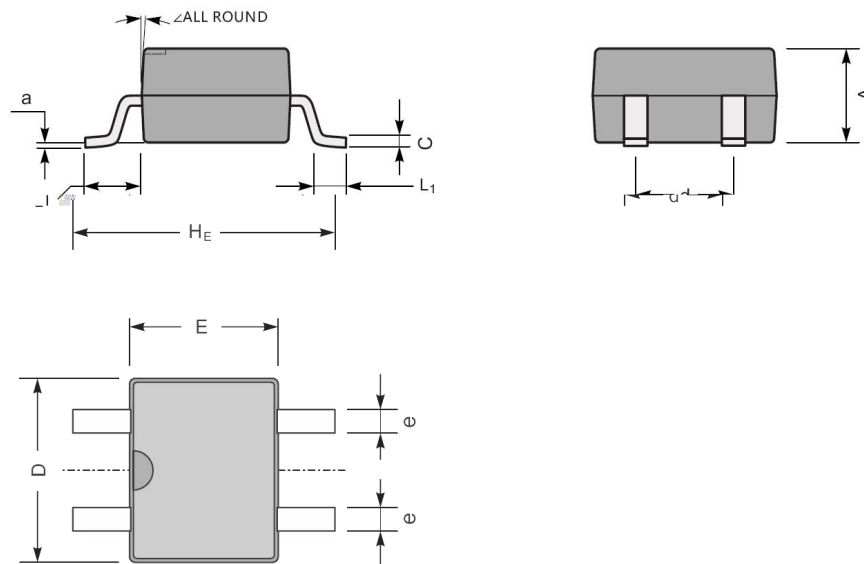
1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with $4 \times (5 \times 5\text{mm}^2)$ copper pad..

Parameter	Symbol	测试条件 Test condition	数值 Rating	单位 Unit
Maximum Forward Voltage	V_F	$I_F=0.5\text{A}$	1.1	V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I_R	$T_a=25^\circ\text{C}$ $T_a=125^\circ\text{C}$	5.0 40	μA

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MBS

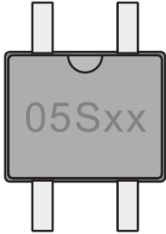


MBS mechanical data

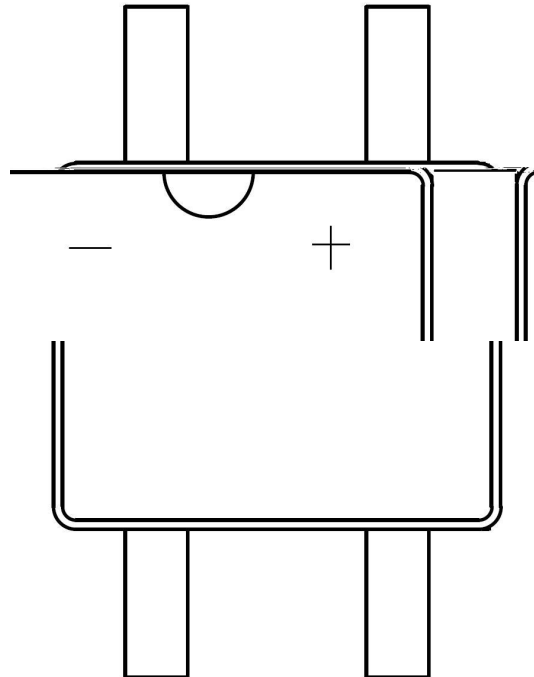
UNIT		A	C	D	E	H _E	d	e	L	L ₁	a	∠
mm	max	2.6	0.22	5.0	4.1	7.0	2.7	0.7	1.7	1.1	0.2	7°
	min	2.2	0.15	4.5	3.6	6.4	2.3	0.5	1.3	0.5	—	
	typ	102	8.7	107	161	276	100	—	—	—	—	

Marking

Type number	Marking code
MB1S-05	05S1
MB2S-05	05S2
MB4S-05	05S4
MB6S-05	05S6
MB8S-05	05S8
MB10S-05	05S10

A diagram of a component marking. It shows a rectangular component with four pins (two on top, two on bottom). The marking '05Sxx' is printed on the component, with a small semi-circular notch above the 'x's.

05Sxx



*

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Note:

Product Type Code

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

No Code

