

/ Descriptions

0.5A

MBS

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

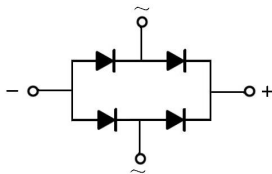
/ Features

Glass Passivated Chip Junction, Reverse Voltage:100to1000V, Forward Current:0.5 A, High Surge Current Capability, Designed for Surface Mount Application.Halogen free product.

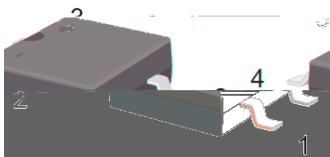
/ Applications

General purpose.

/ Equivalent Circuit

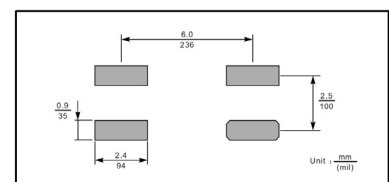


/ Pinning



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

The recommended mounting pad size



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

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						

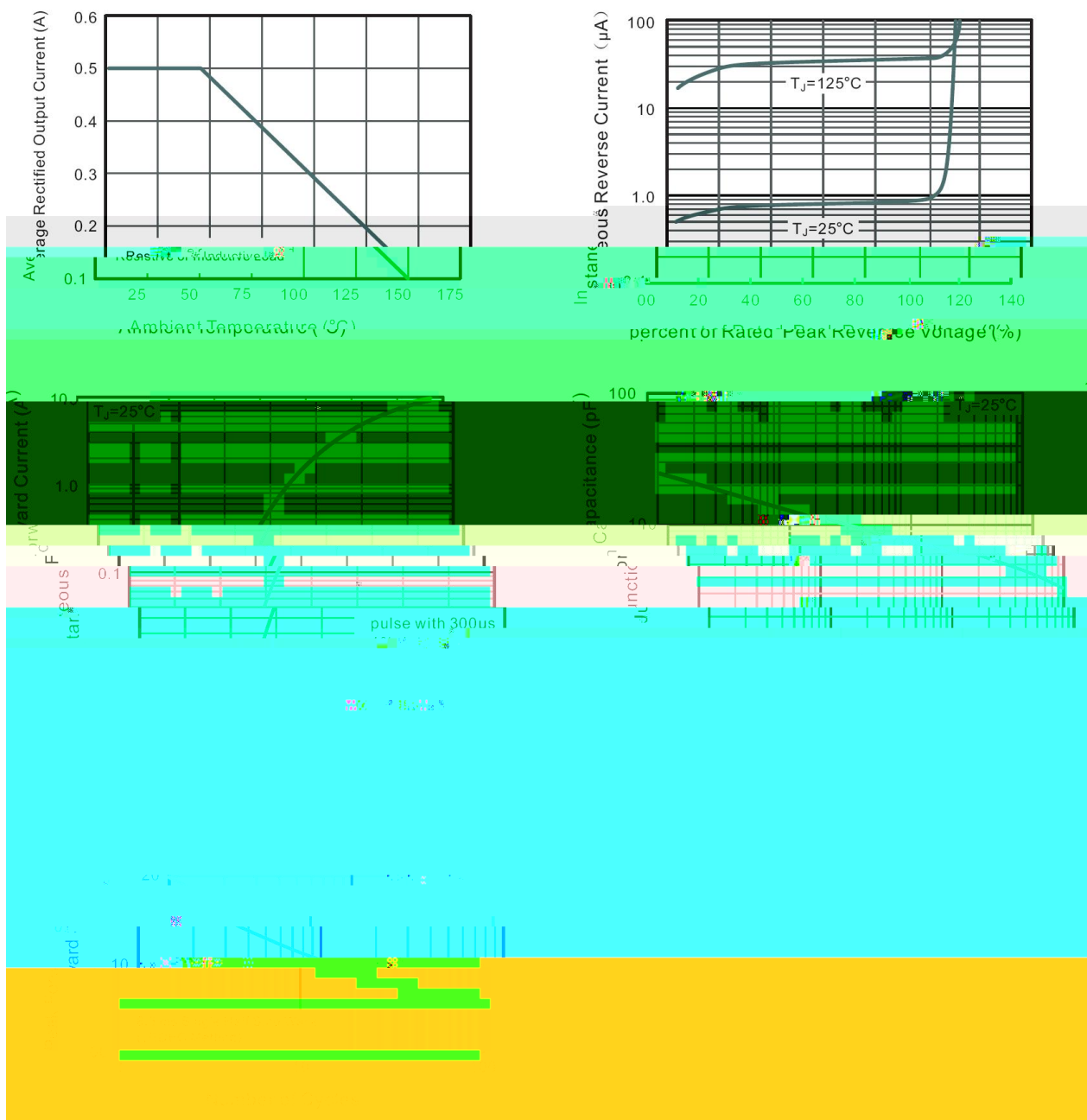
Note:

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..

/ Electrical Characteristics(Ta=25)

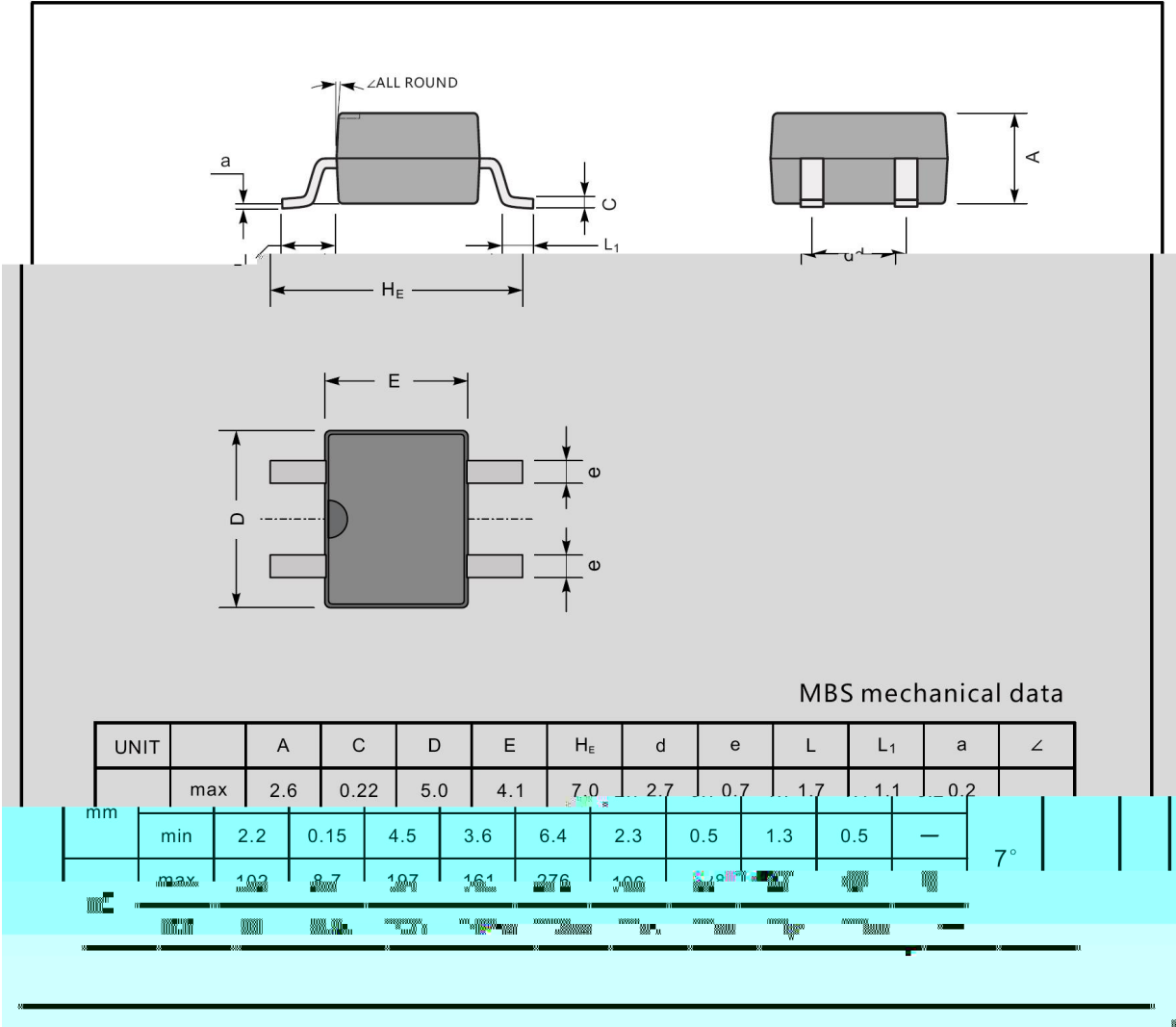
Parameter	Symbol	测试条件 Test condition	数值 Rating	单位 Unit
Maximum Forward Voltage	V_F	$I_F=0.5\text{A}$	1.1	V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I_R	$T_a=25^\circ\text{C}$ $T_a=125^\circ\text{C}$	5.0 40	μA

/ Electrical Characteristic Curve



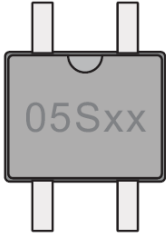
/ Package Dimensions

MBS

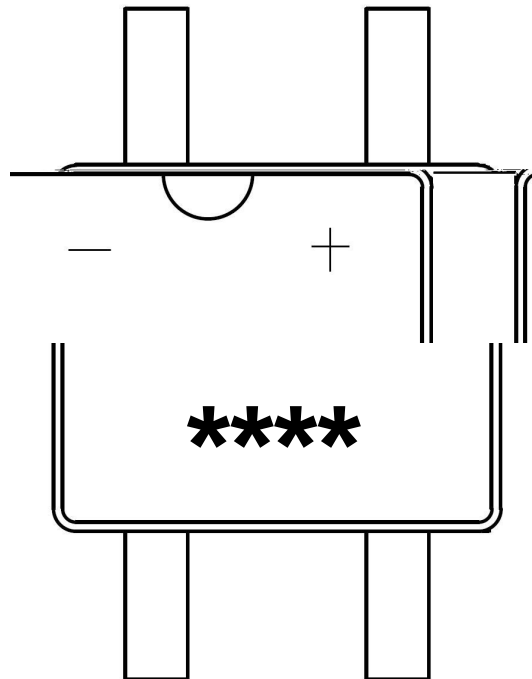


/ Marking Instructions**Marking**

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



/ Marking Instructions



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Note:

Product Type Code

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

