

描述 / Descriptions

1.0A 表面贴装玻璃钝化整流桥，MBS 封装。
1.0A Surface Mount Glass Passivated Bridge Rectifier, MBS package.

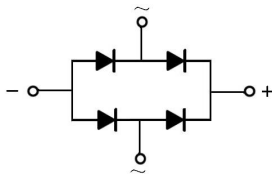
特征 / Features

玻璃钝化芯片，反向电压：100V~1000V，正向电流：1.0A，浪涌电流大，适用于表面贴装。无卤产品。
Glass Passivated Chip Junction, Reverse Voltage:100to1000V, Forward Current:1.0A, High Surge Current Capability, Designed for Surface Mount Application.Halogen free product.

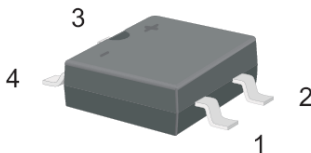
用途 / Applications

一般用途。
General purpose.

内部等效电路 / Equivalent Circuit

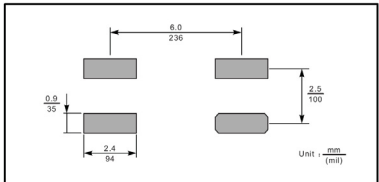


引脚排列 / Pinning



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

The recommended mounting pad size



印章代码 / Marking

见印章说明。See Marking Instructions.

极限参数 / Absolute Maximum Ratings(Ta=25°C)

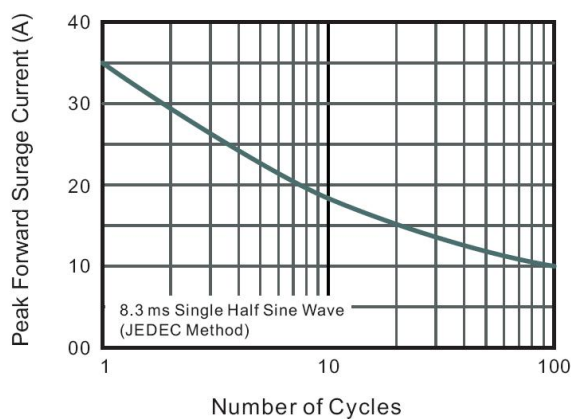
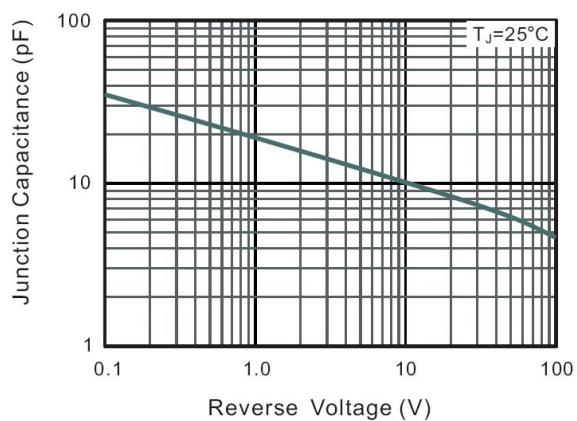
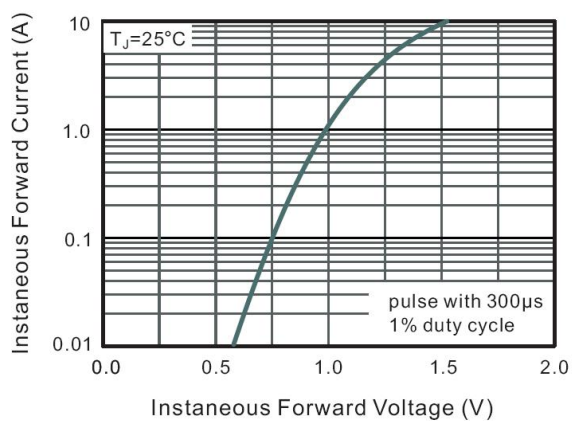
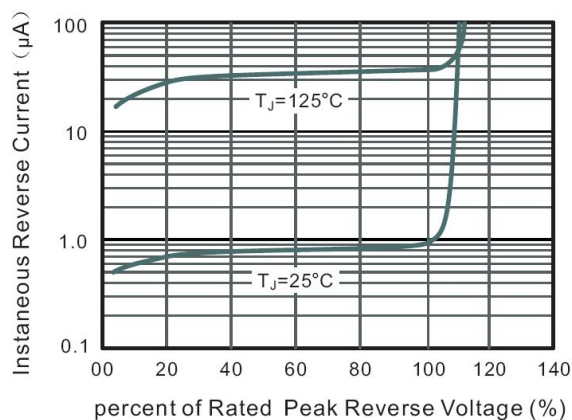
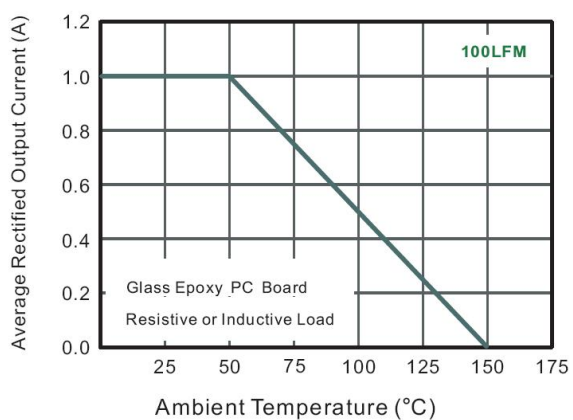
参数 Parameter	符号 Symbol	数值 Rating						单位 Unit
		MB1S-10	MB2S-10	MB4S-10	MB6S-10	MB8S-10	MB10S-10	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at $T_a = 50^\circ\text{C}$	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 ^(Note1)	C_j	13						pF
Typical Thermal Resistance ^(Note2)	$R_{\theta JA}$	85						$^\circ\text{C}/\text{W}$
Typical Thermal Resistance ^(Note2)	$R_{\theta JL}$	30						$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150						$^\circ\text{C}$

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..

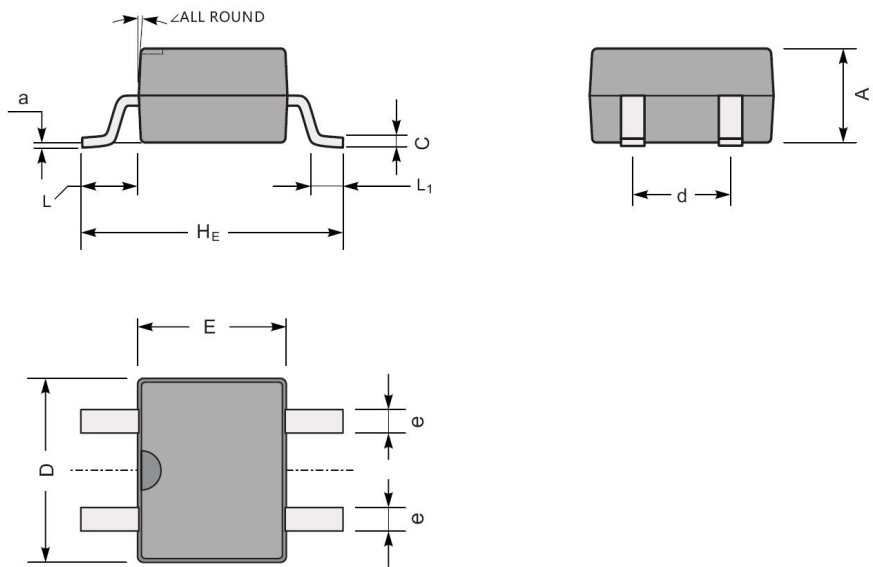
电性能参数 / Electrical Characteristics(Ta=25°C)

参数 Parameter	符号 Symbol	测试条件 Test condition	数值 Rating	单位 Unit
Maximum Forward Voltage	V_F	$I_F=1.0\text{A}$	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


电参数曲线图 / Electrical Characteristic Curve


外形尺寸图 / Package Dimensions

MBS



MBS mechanical data

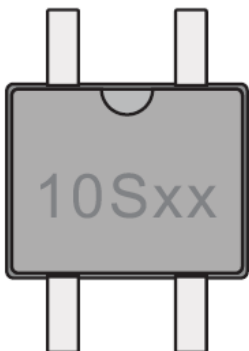
UNIT		A	C	D	E	H _E	d	e	L	L ₁	a	$\angle$
mm	max	2.6	0.22	5.0	4.1	7.0	2.7	0.7	1.7	1.1	0.2	7°
	min	2.2	0.15	4.5	3.6	6.4	2.3	0.5	1.3	0.5	—	
mil	max	102	8.7	197	161	276	106	28	67	43	8	
	min	94	5.9	177	142	252	91	20	51	20	—	



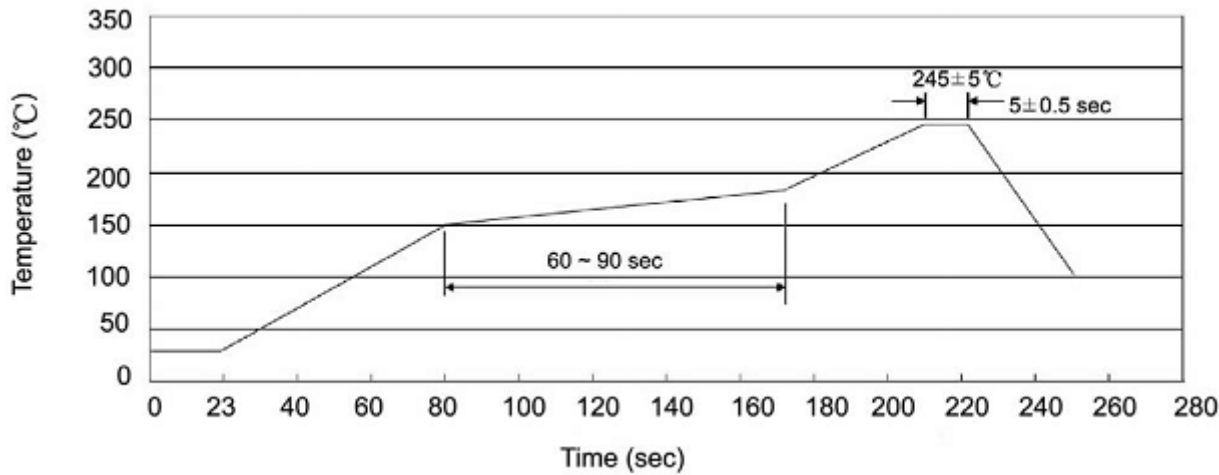
印章说明 / Marking Instructions

Marking

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



回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)



- 说明：

 - 1、预热温度 $25 \sim 150^{\circ}\text{C}$ ，时间 $60 \sim 90\text{sec}$;
 - 2、峰值温度 $245 \pm 5^{\circ}\text{C}$ ，时间持续为 $5 \pm 0.5\text{sec}$;
 - 3、焊接制程冷却速度为 $2 \sim 10^{\circ}\text{C}/\text{sec}$.
- Note:

 - 1.Preheating: $25 \sim 150^{\circ}\text{C}$ ，Time: $60 \sim 90\text{sec}$.
 - 2.Peak Temp.: $245 \pm 5^{\circ}\text{C}$ ，Duration: $5 \pm 0.5\text{sec}$.
 3. Cooling Speed: $2 \sim 10^{\circ}\text{C}/\text{sec}$.

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

温度： $260 \pm 5^{\circ}\text{C}$ 时间： 10 ± 1 sec. Temp.: $260 \pm 5^{\circ}\text{C}$ Time: 10 ± 1 sec

包装规格 / Packaging SPEC.

卷盘包装 / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
MBS	3000	2	6000	5	30000	13" ×15	336X336X40	345X345X235

使用说明 / Notices