

描述 / Descriptions

0.8A 表面贴装玻璃钝化整流桥，MBS 封装。
0.8A Surface Mount Glass Passivated Bridge Rectifier, MBS package.

特征 / Features

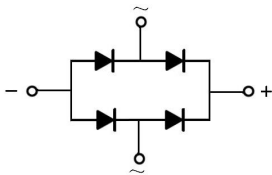
玻璃钝化芯片，反向电压：100V~1000V，正向电流：0.8A，浪涌电流大，适用于表面贴装。无卤产品。

Glass Passivated Chip Junction, Reverse Voltage:100to1000V, Forward Current:0.8 A, High Surge Current Capability, Designed for Surface Mount Application.Halogen free product.

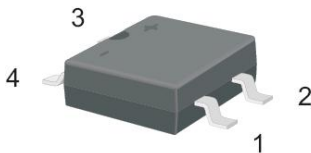
用途 / Applications

一般用途。
General purpose.

内部等效电路 / Equivalent Circuit

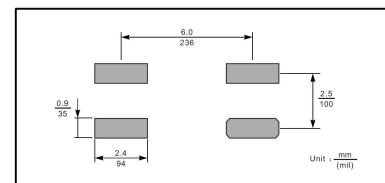


引脚排列 / Pinning



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	MB2S	MB4S	MB6S	MB8S	MB10S	
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	0.8						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30						A
Typical Junction Capacitance ^(Note1)	C_j	13						pF
Typical Thermal Resistance ^(Note2)	$R_{\theta JA}$	95						$^\circ\text{C}/\text{W}$
Typical Thermal Resistance ^(Note2)	$R_{\theta JL}$	30						$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150						$^\circ\text{C}$

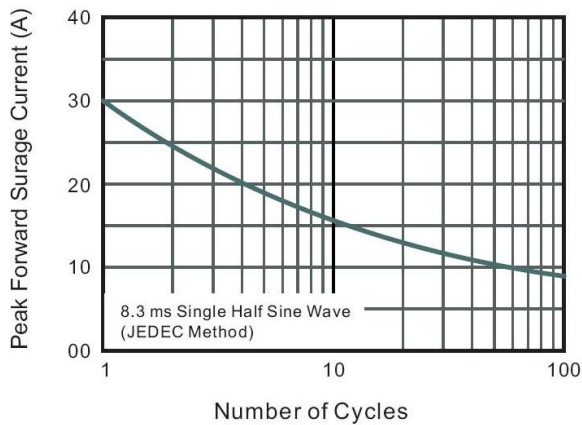
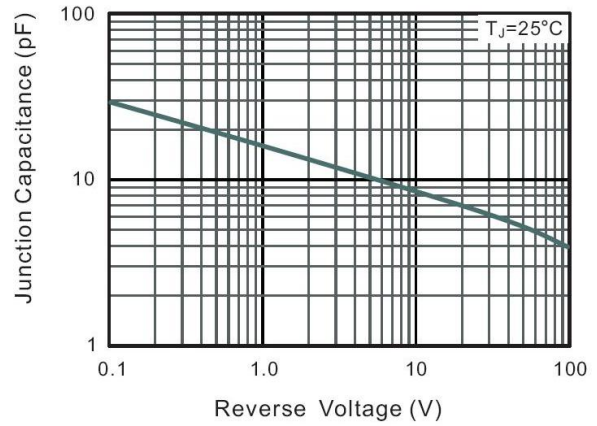
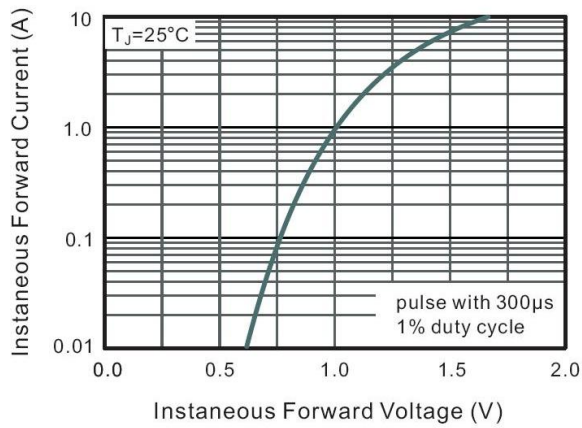
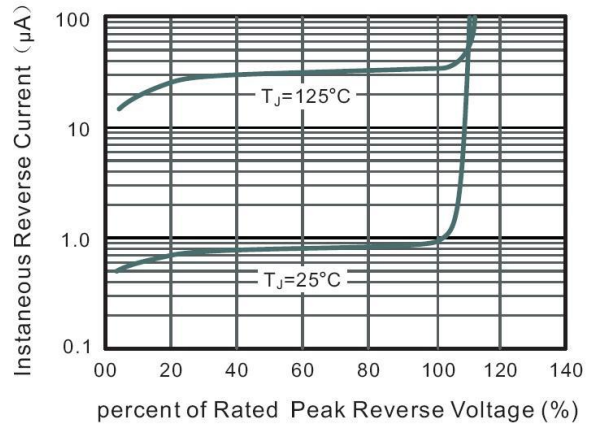
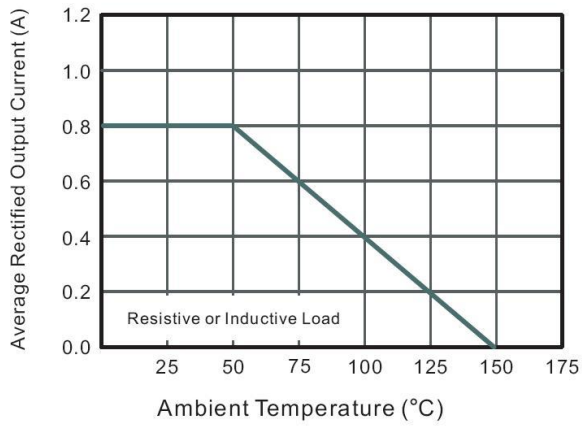
Note:

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)

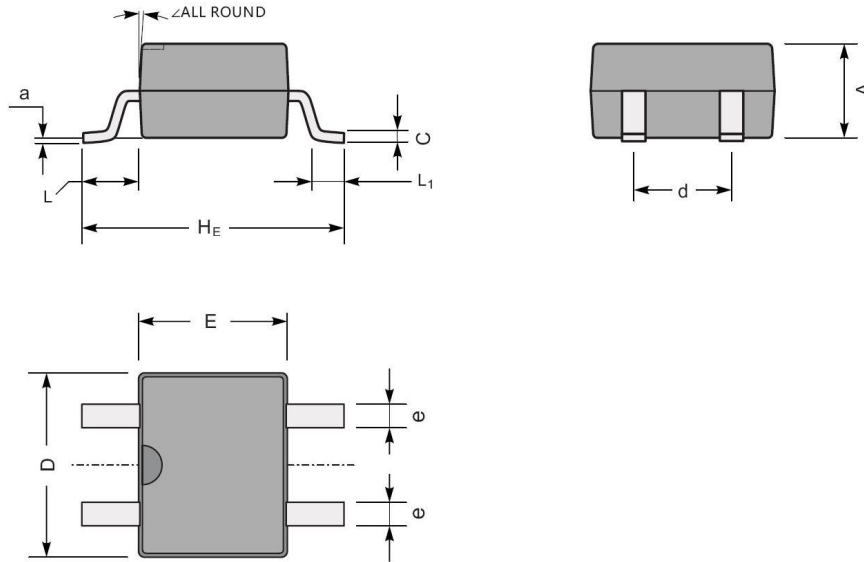
参数 Parameter	符号 Symbol	测试条件 Test condition	数值 Rating	单位 Unit
Maximum Forward Voltage	V_F	$I_F=0.4\text{A}$	1.0	V
		$I_F=0.8\text{A}$	1.1	
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I_R	$T_a=25^\circ\text{C}$	5.0	μA
		$T_a=125^\circ\text{C}$	40	

电参数曲线图 / Electrical Characteristic Curve



外形尺寸图 / Package Dimensions

MBS



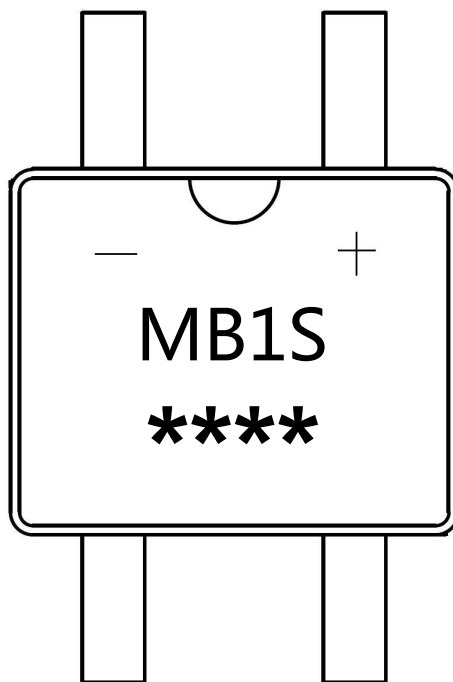
MBS mechanical data

UNIT		A	C	D	E	H _E	d	e	L	L ₁	a	∠
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	—	

Marking

Type number	Marking code
MB1S	MB1S
MB2S	MB2S
MB4S	MB4S
MB6S	MB6S
MB8S	MB8S
MB10S	MB10S

印章说明 / Marking Instructions



说明：

MB1S： 为型号代码

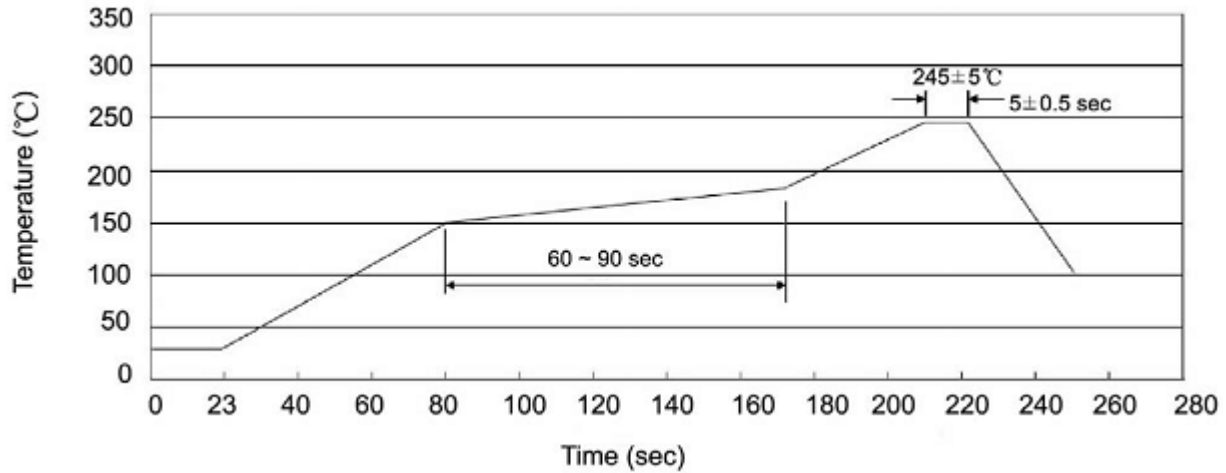
****： 为生产批号追溯码，第1个*为年月代码，后面3个*为当月小批号代码

Note:

MB1S： Product Type Code

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

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 ~ 150°C，时间 60 ~ 90sec;
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2 ~ 10°C/sec.

Note:

- 1.Preheating:25~150°C, Time:60~90sec.
- 2.Peak Temp.:245±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

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

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°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	7	42000	13" × 12	336X336X40	380X335X366

使用说明 / Notices