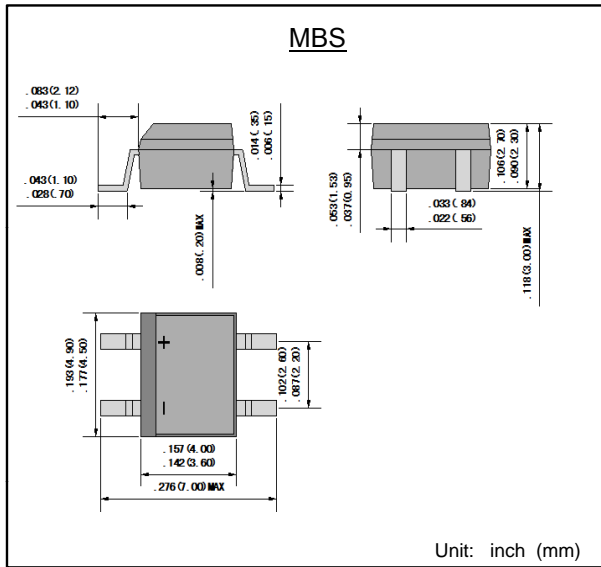表面安装桥式整流器
反向电压 200 ~ 1000 V
正向电流 0.8 A

## Surface Mount Bridge Rectifiers

Reverse Voltage 200 ~ 1000 V
Forward Current 0.8 A

MBS



Unit: inch (mm)

## 特征 Features

- 反向漏电流低 Low reverse leakage
- 正向浪涌承受能力强 High forward surge capability
- 玻璃钝化芯片 Glass passivated chip
- 高温焊接保证 High temperature soldering guaranteed:
  260℃/10 秒 260℃/10seconds
- 引线和管体皆符合RoHS标准 。
  Lead and body according with RoHS standard

## 机械数据 Mechanical Data

- 封装: MBS塑料封装 Case: MBS Molded plastic
- 极性: 标记模压或印于本体
  Polarity: Symbols molded or marked on body
- 安装位置: 任意 Mounting Position: Any

## 最大值和特性 TA = 25℃ 除非另有规定。
Maximum Ratings & Characteristics Ratings at 25℃ ambient temperature unless otherwise specified.

| 参数<br>Parameter | 符号<br>Symbols | MB2S | MB4S | MB6S | MB8S | MB10S | 单位<br>Unit |
|---|---|---|---|---|---|---|---|
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage | $V_{RRM}$ | 200 | 400 | 600 | 800 | 1000 | V |
| 最大均方根电压 Maximum RMS voltage | $V_{RMS}$ | 140 | 280 | 420 | 560 | 700 | V |
| 最大直流阻断电压<br>Maximum DC blocking voltage | $V_{DC}$ | 200 | 400 | 600 | 800 | 1000 | V |
| 最大正向平均整流电流 (Note 1) TA= 25℃<br>Maximum average forward rectified current | $I_{F(AV)}$ | 0.8 | | | | | A |
| 最大正向平均整流电流 (Note 2) TA= 25℃<br>Maximum average forward rectified current | | 0.5 | | | | | A |
| 正向不重复浪涌电流 8.3 ms单一正弦半波<br>Non-repetitive peak forward surge current<br>8.3 ms singlehalf sine-wave | $I_{FSM}$ | 30 | | | | | A |
| 最大正向电压 @IF=0.4A<br>Maximum forward voltage | $V_F$ | 1.0 | | | | | V |
| 最大反向电流 @$V_{DC}$ TA = 25℃<br>Maximum reverse current | $I_R$ | 5 | | | | | μA |
| 典型热阻 Typical thermal resistance (Note 3) | RθJA | 85 | | | | | ℃/W |
| 典型热阻 Typical thermal resistance (Note 4) | RθJL | 20 | | | | | |
| 工作结温和存储温度<br>Operating junction and storage temperature range | Tj, TSTG | -55 --- +150 | | | | | ℃ |

备注 Note:
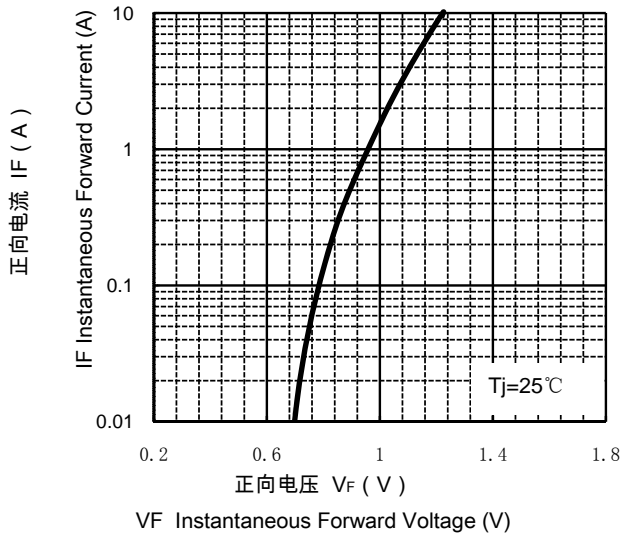
1) 安装在氧化铝基板上 On alumina substrate

2) 安装在玻璃-环氧基板上 On glass-epoxi substrate

3) 安装在PCB板上，从PN结到环境的热阻。
   Thermal resistance from junction to ambient , PCB mounted.

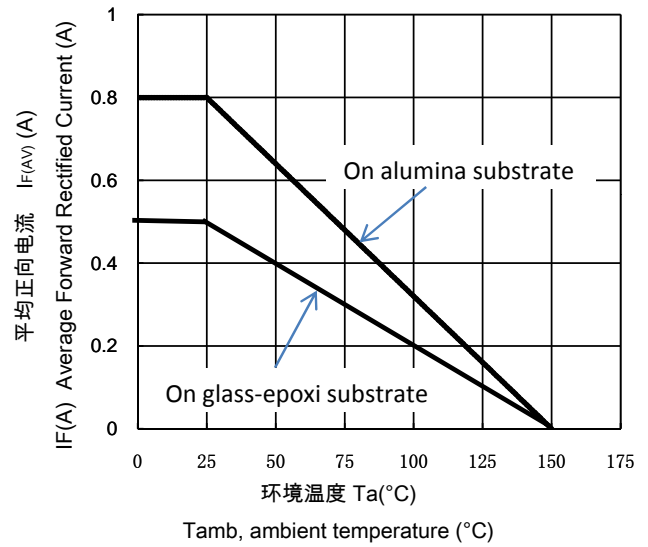4) 结和引线之间 Between junction and lead

**特性曲线　Characteristic Curves**
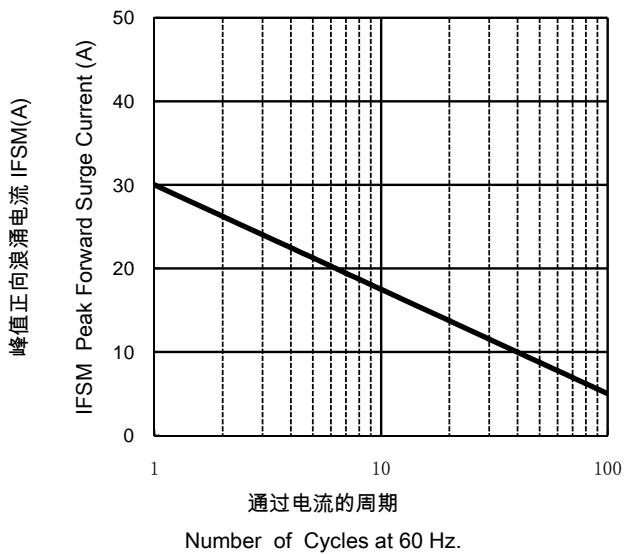
### 正向特性曲线（典型值）
#### TYPICAL FORWARD CHARACTERISTIC



正向电流 IF（A）
IF Instantaneous Forward Current (A)

正向电压 VF（V）
VF Instantaneous Forward Voltage (V)

Tj=25℃

### 正向电流降额曲线
#### FORWARD CURRENT DERATING CURVE



平均正向电流 IF(AV) (A)
IF(A) Average Forward Rectified Current (A)

环境温度 Ta(℃)
Tamb, ambient temperature (℃)

On alumina substrate

On glass-epoxi substrate

### 浪涌特性曲线（最大值）
#### MAXIMUM NON REPETITIVE
#### PEAK FORWARD SURGE CURRENT



峰值正向浪涌电流 IFSM(A)
IFSM Peak Forward Surge Current (A)

通过电流的周期
Number of Cycles at 60 Hz.

### 反向特性曲线
#### Typical Reverse Characteristics



反向电流IR(uA)
Reverse Current(uA)

额定峰值反向电压%
Percent Of Rated Peak Reverse voltage %

Tj=25℃