

# MBL1S THRU MBL10S

## Bridge Rectifier



### ■特征 Features

- $I_O$  0.8A
- $V_{RRM}$  100V~1000V
- 玻璃钝化芯片  
Glass passivated chip
- 耐正向浪涌电流能力高  
High surge forward current capability

### ■用途 Applications

- 作一般电源单相桥式整流用  
General purpose 1 phase Bridge rectifier applications

### ■极限值 (绝对最大额定值)

#### Limiting Values (Absolute Maximum Rating)

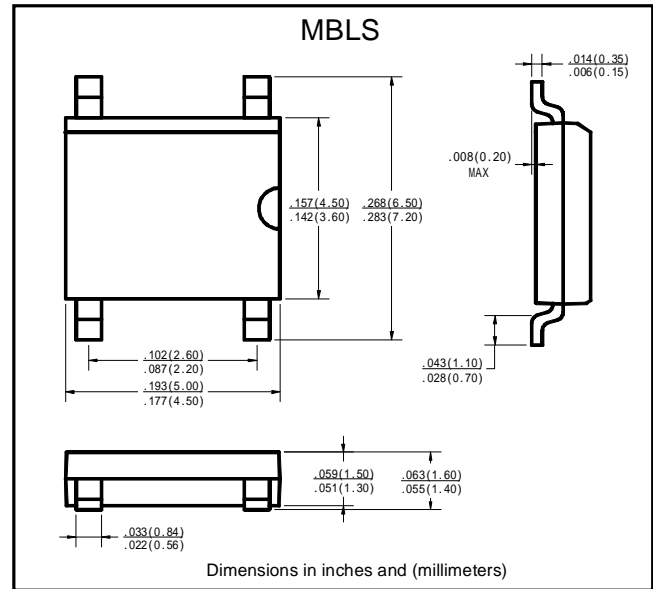
参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions		MBL					
					1S	2S	4S	6S	8S	10S
反向重复峰值电压 Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V			100	200	400	600	800	1000
平均整流输出电流 Average Rectified Output Current	I <sub>O</sub>	A	60Hz正弦波, 电阻负载, Ta=25℃	安装在氧化铝基板上 On alumina substrate	0.8					
			60Hz sine wave, R-load, Ta=25℃	安装在玻璃-环氧基板上 On glass-epoxi substrate	0.5					
正向（不重复）浪涌电流 Surge(Non-repetitive)Forward Current	I <sub>FSM</sub>	A	60Hz正弦波, 一个周期, T <sub>J</sub> =25℃ 60Hz sine wave, 1 cycle, T <sub>J</sub> =25℃		35					
正向浪涌电流的平方对电流浪涌持续时间的积分值 Current Squared Time	I <sup>2</sup> t	A <sup>2</sup> S	1ms≤t<8.3ms T <sub>J</sub> =25℃, 单个二极管 1ms≤t<8.3ms T <sub>J</sub> =25℃, Rating of per diode		5.1					
存储温度 Storage Temperature	T <sub>stg</sub>	℃			-55 ~+150					
结温 Junction Temperature	T <sub>j</sub>	℃			-55 ~+150					

### ■电特性 ( $T_a=25^\circ\text{C}$ 除非另有规定)

#### Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition	最大值 Max
正向峰值电压 Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=0.4\text{A}$ , 脉冲测试, 单个二极管的额定值 $I_{FM}=0.4\text{A}$ , Pulse measurement, Rating of per diode	1.0
反向峰值电流 Peak Reverse Current	$I_{RRM}$	A	$V_{RM}=V_{RRM}$ , 脉冲测试, 单个二极管的额定值 $V_{RM}=V_{RRM}$ , Pulse measurement, Rating of per diode	10
热阻 Thermal Resistance	$R_{\theta J-A}$	$^\circ\text{C/W}$	结和环境之间, 安装在氧化铝基板上 Between junction and ambient, On alumina substrate	76
			结和环境之间, 安装在玻璃-环氧基板上 Between junction and ambient, On glass-epoxy substrate	134
	$R_{\theta J-L}$		结和引线之间 Between junction and lead	20

### ■外形尺寸 Outline Dimensions and Mark



# MBL1S THRU MBL10S

## Bridge Rectifier



### ■特性曲线（典型） Characteristics(Typical)

图1:  $I_o$ - $T_a$ 曲线  
FIG1:  $I_o$ - $T_a$  Curve

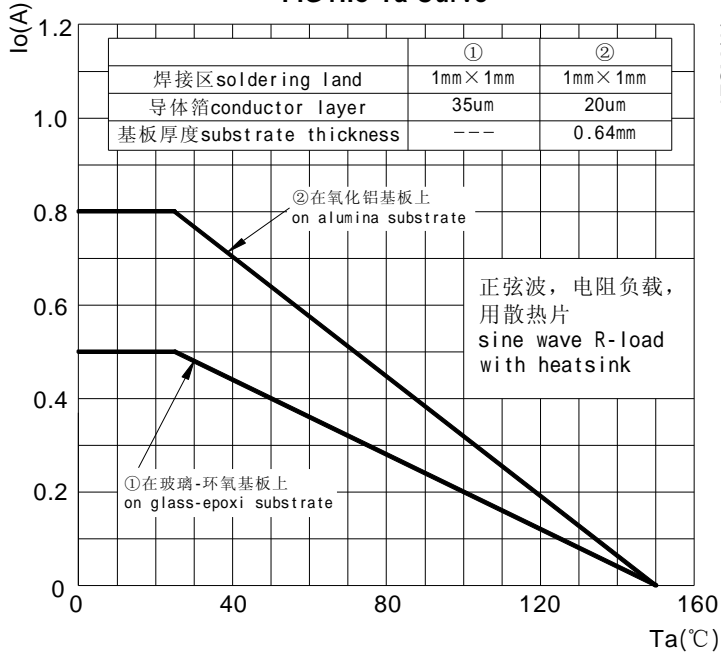


图2: 耐正向浪涌电流曲线  
FIG2: Surge Forward Current Capability

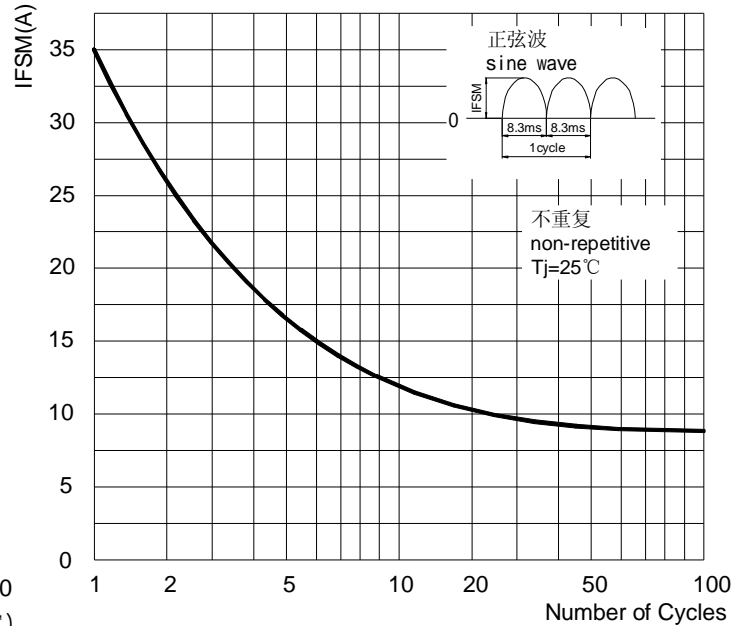


图3: 正向电压曲线  
FIG3: Forward Voltage

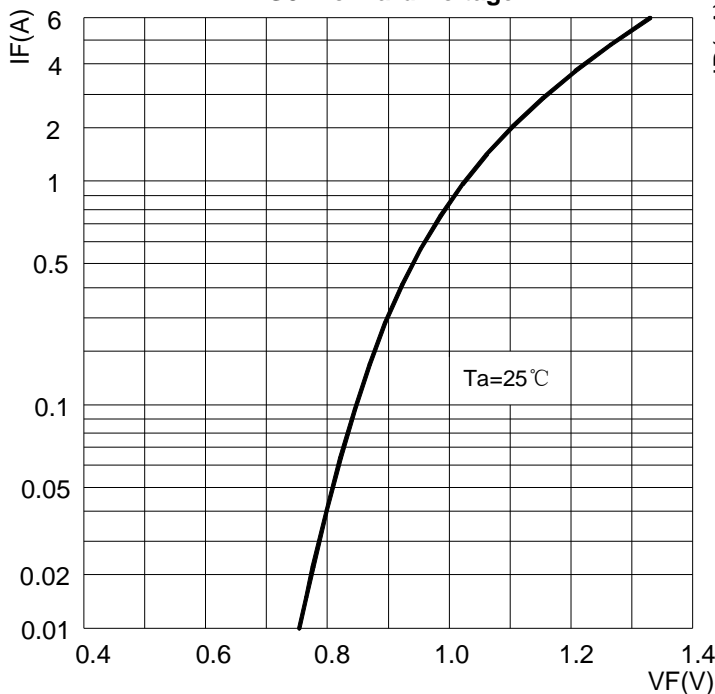


图4: 反向电流曲线  
FIG4: Typical Reverse Characteristics

