



MBL1S THRU MBL10S

桥式整流器 Bridge Rectifier

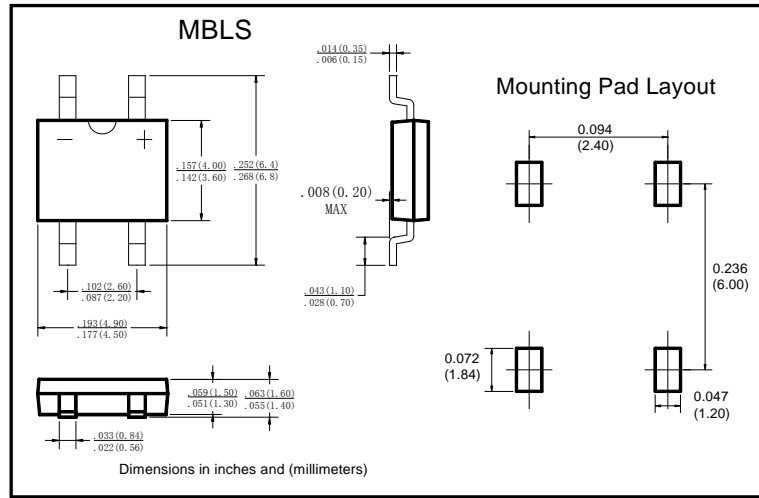
■特征 Feature

- 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

■外形尺寸和印记 Outline Dimensions and Mark



■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_{RRM}	V		100	200	400	600	800	1000	
平均整流输出电流 Average Rectified Output Current	I_o	A	60Hz正弦波， 电阻负载， $T_a=35^\circ\text{C}$	安装在氧化铝基板上 On alumina substrate	0.8					
			60Hz sine wave, R-load, $T_a=35^\circ\text{C}$	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_{FSM}	A	60Hz正弦波，一个周期， $T_j=25^\circ\text{C}$ 60Hz sine wave, 1 cycle, $T_j=25^\circ\text{C}$		30					
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^2t	A^2S	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ ，单个二极管 $1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ ，Rating of per diode		3.7					
存储温度 Storage Temperature	T_{stg}	$^\circ\text{C}$			-55 ~+150					
结温 Junction Temperature	T_j	$^\circ\text{C}$			-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}	μA	$V_{RM}=V_{RRM}$ ，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	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	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-epoxi substrate	134
	$R_{\theta J-L}$		结和引线之间 Between junction and lead	20

■特性曲线（典型） Characteristics(Typical)

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

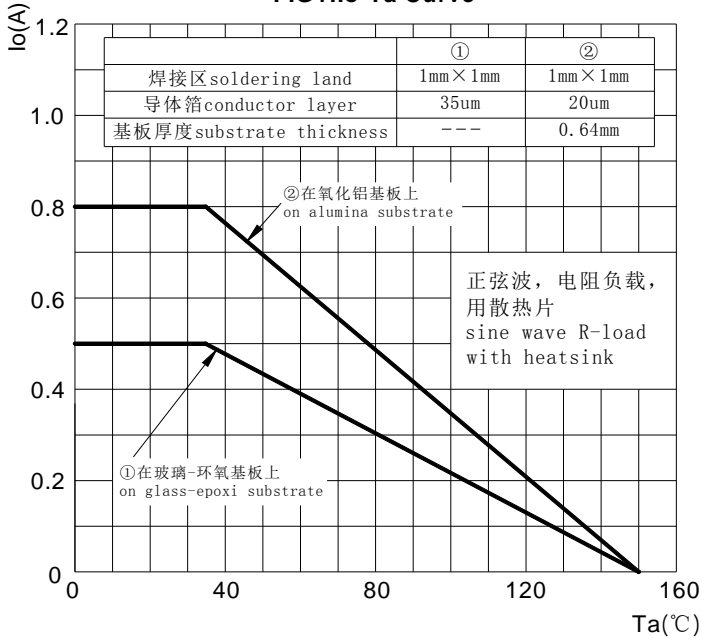


图2: 耐正向浪涌电流曲线
FIG2:Surge Forward Current Capadility

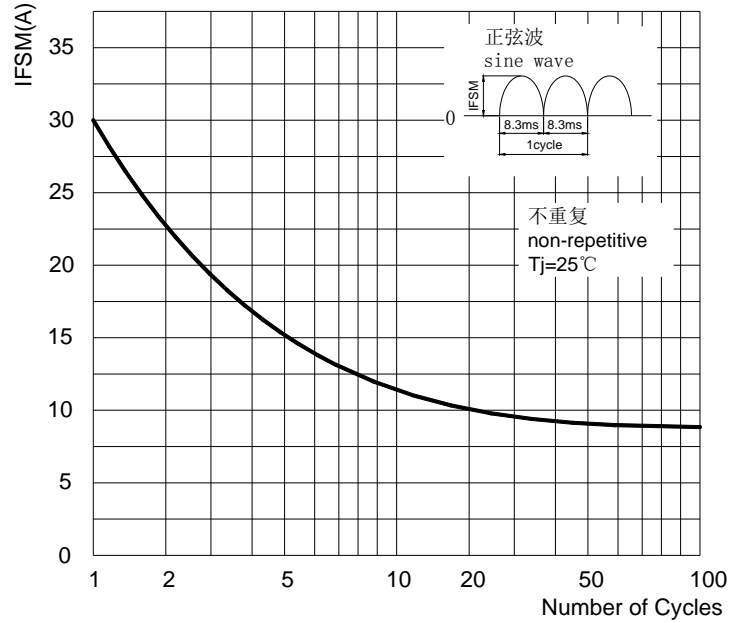


图3: 正向电压曲线
FIG3: Forward Voltage

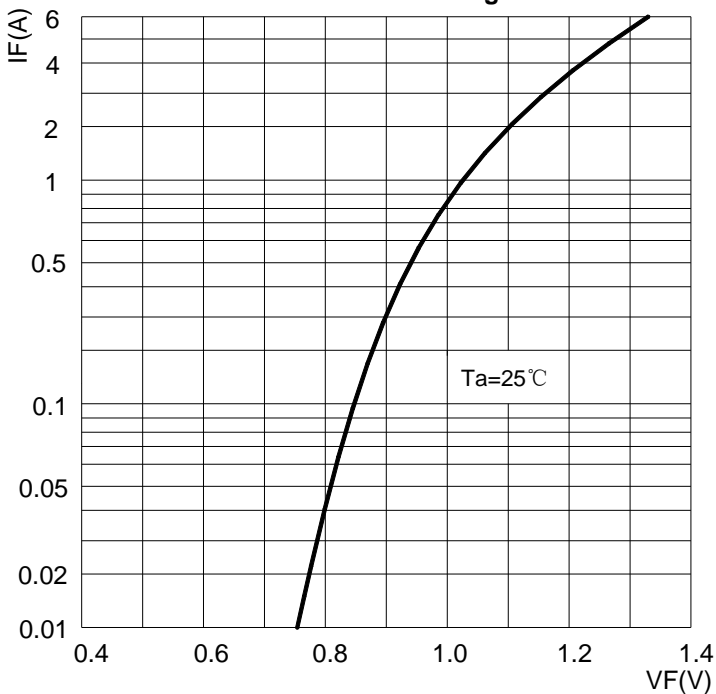


图4: 反向电流曲线
FIG4:Typical Reverse Characteristics

