



MBSK12S THRU MBSK110S

肖特基桥式整流器 Schottky Bridge Rectifier

■特征 Features

- I_o 1.0A
- V_{RRM} 20V~100V
- 肖特基芯片
Schottky chip
- 耐正向浪涌电流能力高
High surge forward current capability
- 低正向电压
Low VF

■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)

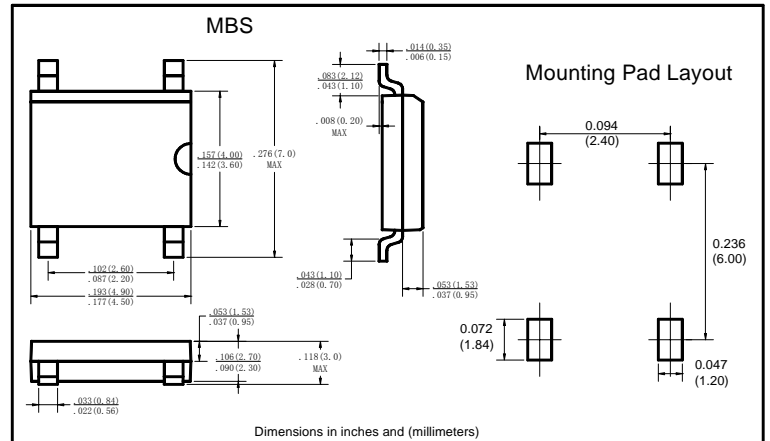
参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	MBSK				
				12S	14S	16S	18S	110S
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	V		20	40	60	80	100
平均整流输出电流 Average Rectified Output Current	I_o	A	60Hz正弦波, 电阻负载, $T_a=25^\circ\text{C}$ 60Hz sine wave, R-load, $T_a=25^\circ\text{C}$	安装在氧化铝基板上 On alumina substrate	1.0			
				安装在玻璃-环氧基板上 On glass-epoxi substrate	0.8			
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, $T_j=25^\circ\text{C}$	40				
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	6.6				
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	$I_{FM}=0.5\text{A}$, 脉冲测试, 单个二极管的额定值 Pulse measurement, Rating of per diode	0.55	0.65	0.85
反向峰值电流 Peak Reverse Current	I_{RRM}	mA	$V_{RM}=V_{RRM}$, 脉冲测试, 单个二极管的额定值 $V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	0.5		
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-epoxi substrate	134		
	$R_{\theta J-L}$	结和引线之间 Between junction and lead	20			

■外形尺寸和印记 Outline Dimensions and Mark



■特性曲线（典型） Characteristics(Typical)

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

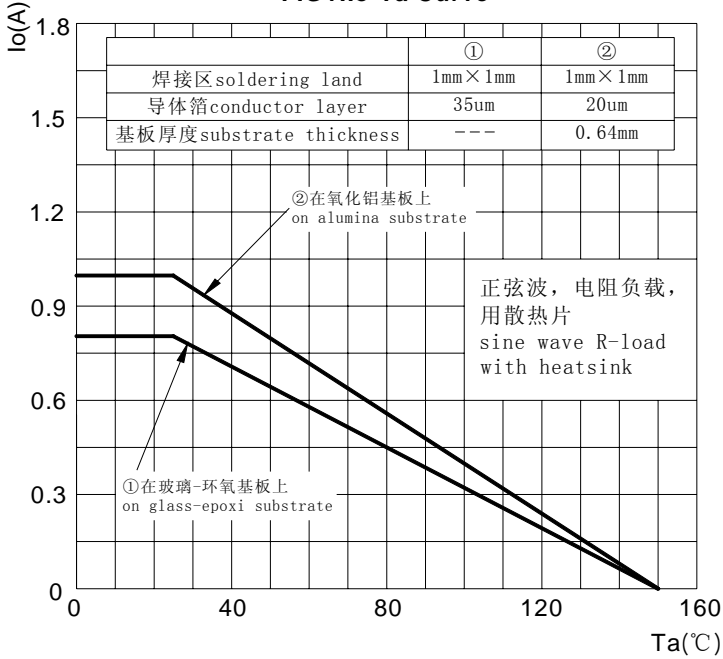


图2: 耐正向浪涌电流曲线
FIG2: Surge Forward Current Capacity

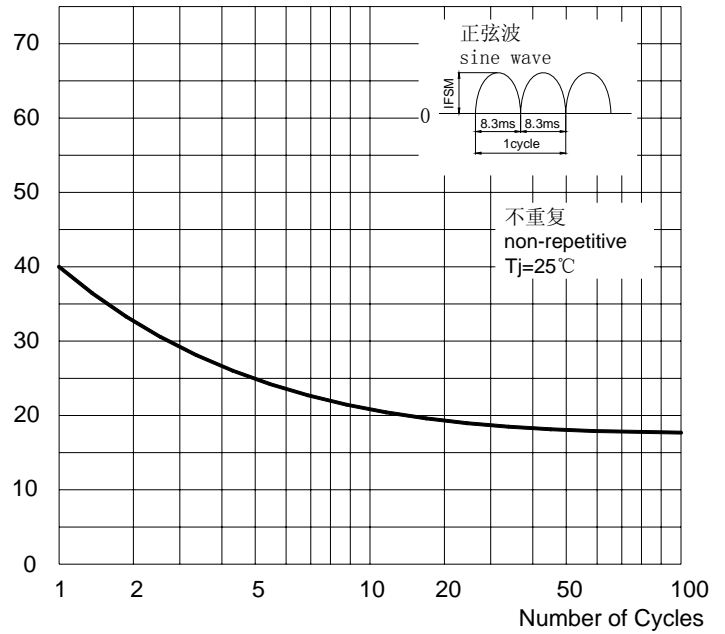


图3: 正向电压曲线
FIG3: Forward Voltage

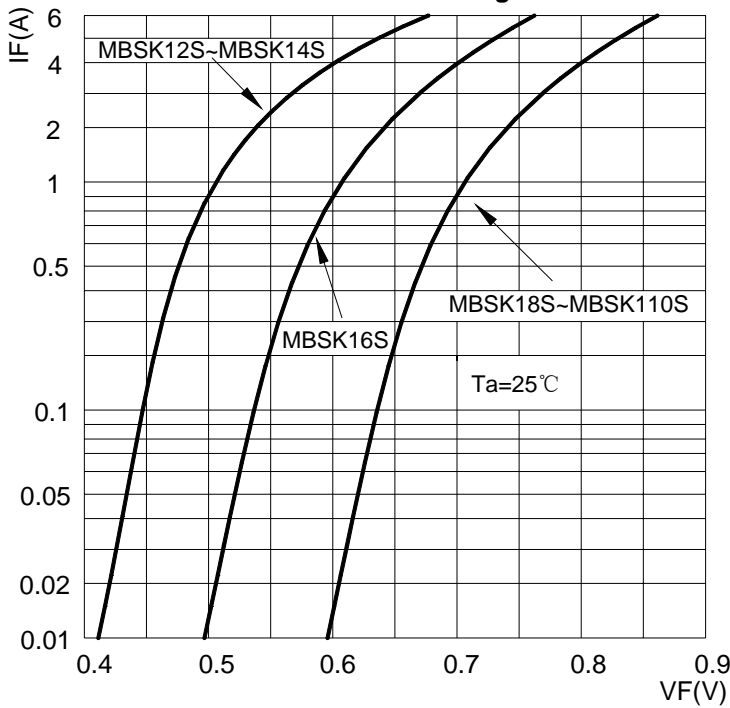


图4: 反向电流曲线
FIG4: Typical Reverse Characteristics

