



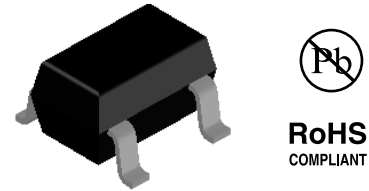
VMB4S~VMB10S

微型表面贴装桥式整流器 Infinitesimal surface mount bridge rectifier

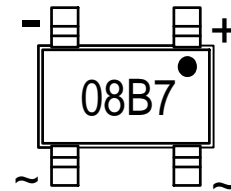
特征

Features

- 低剖面空间
Low profile space
- 印刷电路板的理想选择
Ideal for printed circuit board
- 低反向漏电
Low reverse leakage
- 可应用于电源设备
Applicated in power supply equipment
- 高抗振铃波能力
High ring wave immunity capability
- 高温焊接保证：260°C/10秒
High temperature soldering guaranteed:260°C/10 seconds
- 成分符合RoHS 2011/65/EU和WEEE 2002/96/EC标准
Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC



IBS



Marking

机械数据

Mechanical Data

- 封装: IBS
Case: IBS
- 模塑料符合UL 94 V-0可燃性等级
Molding compound meets UL 94 V-0 flammability rating
- 端子:电镀焊料, 可根据MIL-STD-750方法2026进行焊接
Terminals: Solder plated, solderable per MIL-STD-750 Method 2026
- 极性:带点位置为正极, 同侧另一端为负极, 交流极在另一侧
Polarity: Mark a dot at the positive position.
The other end on the same side is negative.AC pole is on the other side
- 安装位置: 任何
Mounting Position: Any

主要额定值和特性

Major Ratings and Characteristics

$I_{F(AV)}$	0.8A
V_{RRM}	400V to 1000V
I_{FSM}	25A
V_F	0.9V
$T_{Jmax.}$	125°C



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最大额定值和热特性(环境温度25℃, 除非另有说明)

Maximum Ratings & Thermal Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

参数 Parameter	符号 Symbol	VMB4S	VMB6S	VMB8S	VMB10S	单位 Unit
印字 Marking	-	08B4	08B5	08B6	08B7	-
最大重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	400	600	800	1000	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	280	420	560	700	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	400	600	800	1000	V
平均正向整流电流 Average forward rectified current	$I_{F(AV)}$	0.8				A
8.3毫秒单半正弦波峰值正向浪涌电流 Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	25				A
熔断额定值($t < 8.3$ 毫秒) Rating for fusing ($t < 8.3$ ms)	I^2t	2.6				A ² S
从结到环境的热阻 Thermal resistance from junction to ambient	$R_{\theta JA}^{(1)}$	180				°C/W
从结到引线的热阻 Thermal resistance from junction to lead	$R_{\theta JL}$	35				°C/W
工作结温和存储温度范围 Operating junction and storage temperature range	T_J, T_{STG}	-55 to +125				°C

注1:安装在0.05 x 0.05英寸(1.3 x 1.3毫米)焊盘上的1.6毫米厚玻璃环氧树脂印刷电路板上。

Note 1: On 1.6mm thick glass epoxy P.C.B.(1OZ) mounted on 0.05 x 0.05" (1.3 x 1.3 mm) solder pads.



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电气特性(环境温度25℃, 除非另有说明)

Electrical characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

参数 Parameter	测试条件 Test conditions	符号 Symbol	最小值 Min.	典型值 Typ.	最大值 Max.	单位 Unit	
结温 Junction temperature	$I_F=0.15\text{A}, V_{\text{RMS}}=220\text{V}, T_A=25^\circ\text{C}$ and conduction angle=80°	T_J	-	-	85	°C	
瞬时正向电压 Instantaneous forward voltage	$I_F=0.8\text{A}^{(2)}$	V_F	-	0.9	1.0	V	
反向电流 Reverse current	$V_R=V_{\text{DC}}$	I_R	$T_J=25^\circ\text{C}$	-	-	5.0	μA
			$T_J=125^\circ\text{C}$	-	-	100	

注2:脉冲测试:300μ s脉冲宽度, 1%占空比。

Note 2: Pulse test:300μs pulse width,1% duty cycle.

特性曲线(环境温度25℃, 除非另有说明)

Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

图1正向电流降额曲线
Fig.1 Forward Current Derating Curve

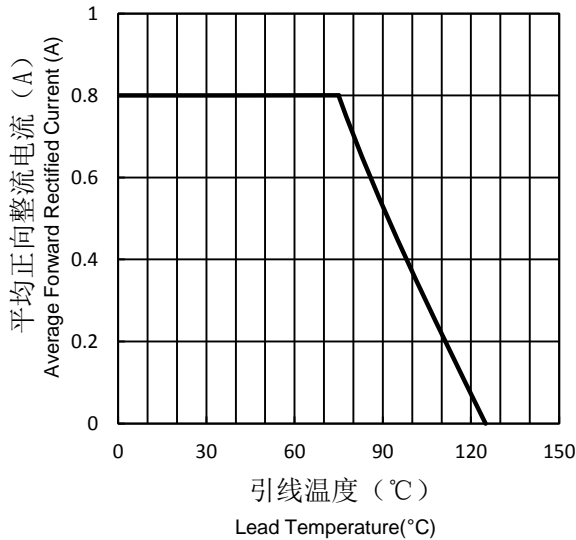
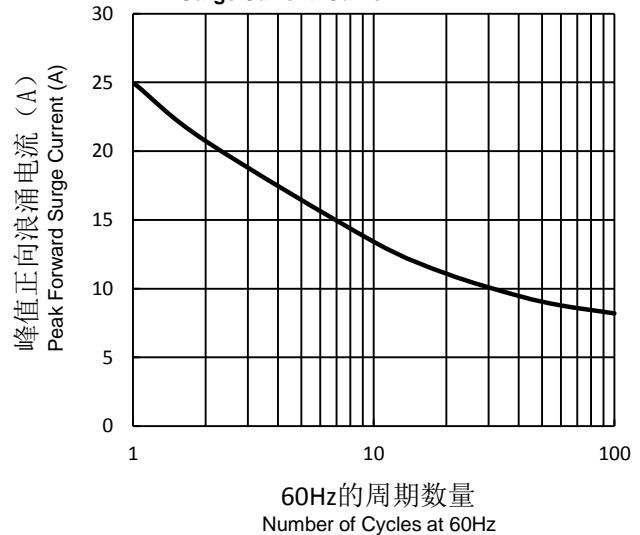


图2最大非重复峰值正向浪涌电流曲线
Fig.2 Maximum Non-Repetitive Peak Forward
Surge Current Curve





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特性曲线 (环境温度25℃, 除非另有说明)

Characteristic Curves ($T_A=25\text{ }^\circ\text{C}$ unless otherwise noted)

图3典型正向电压曲线

Fig.3 Typical Forward Voltage Characteristics

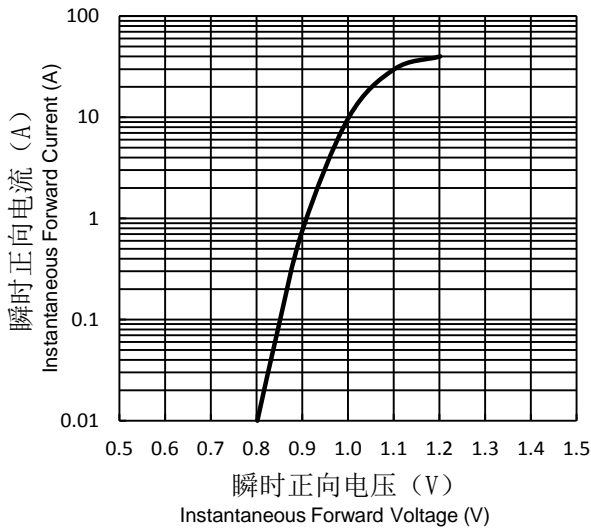


图4典型反向电流曲线

Fig.4 Typical Reverse Characteristics

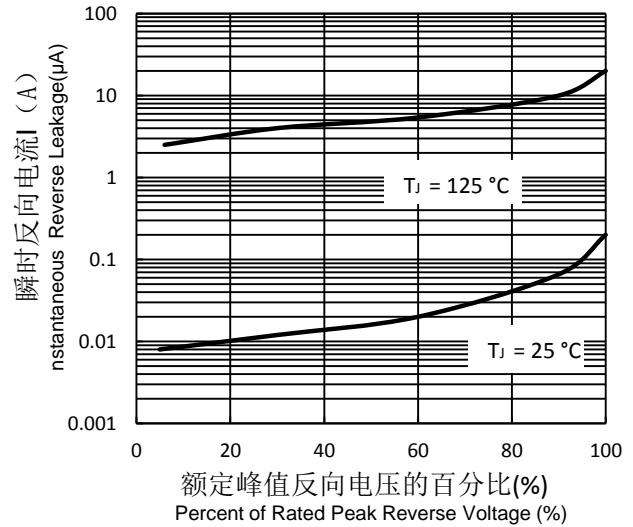
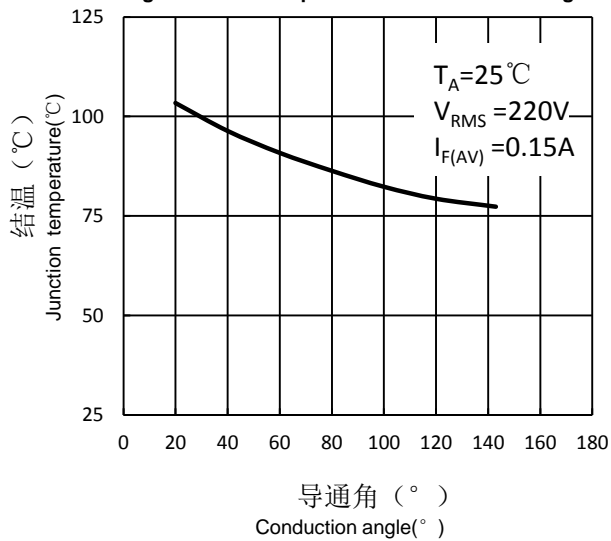


图5结温和导通角关系曲线

Fig.5 Junction temperature vs. conduction angle





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封装外形

Package Outline

IBS

