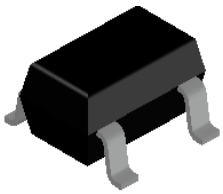
VMB4S~VMB10S

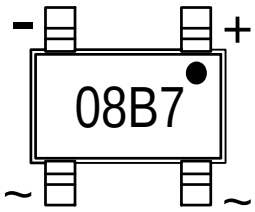
Infinitesimal surface mount bridge rectifier

Features

- Low profile space
- Ideal for printed circuit board
- Low reverse leakage
- Applicated in power supply equipment
- High ring wave immunity capability
- High temperature soldering guaranteed: 260°C/10 seconds
- Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC



RoHS COMPLIANT



Mechanical Date

- **Case:**IBS
  The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity:** Mark a dot at the positive position
  The other end on the same side is negative
  AC pole is on the other side
- **Mounting Position:** Any

Major Ratings and Characteristics

$I_{F(AV)}$	**0.8A**
V_{RRM}	**400V to1000V**
I_{FSM}	**30A**
V_F	**1.0V**
T_J**max.**	**125°C**

Maximum Ratings & Thermal Characteristics (T_A=25℃ unless otherwise noted)

Items	Symbol	VMB4S	VMB6S	VMB8S	VMB10S	Unit
Marking	-	08B4	08B5	08B6	08B7	-
Maximum repetitive peak reverse voltage	V_{RRM}	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	400	600	800	1000	V
Average forward rectified current	$I_{F(AV)}$	0.8				A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	30				A
Rating for fusing (t < 8.3 ms)	I^2t	3.7				A^2s
Thermal resistance from junction to ambient	$R_{\theta JA}$ (1)	180				℃/W
Thermal resistance from junction to lead	$R_{\theta JL}$	35				
Operating junction and storage temperature range	T_J ,T_{STG}	-55 to +125				

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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GUANGDONG JUXING ELECTRONICE TECHNOLOGY., LTD

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

Items	Test conditions		Symbol	Min.	Typ.	Max.	Unit
Junction tempereture	I_F=0.15A,V_{RMS}=220V,T_A=25℃ and conduction angle=80°		T_J	-	-	80	℃
Instantaneous forward voltage	I_F=0.8A(2)		V_F	-	1.0	1.1	V
Reverse current	V_R=V_{DC}	T_J=25℃	I_R	-	-	5.0	μA
		T_J=125℃		-	-	100.0	

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

Characteristics Curves

Fig.1 Foward Current Derating Curve

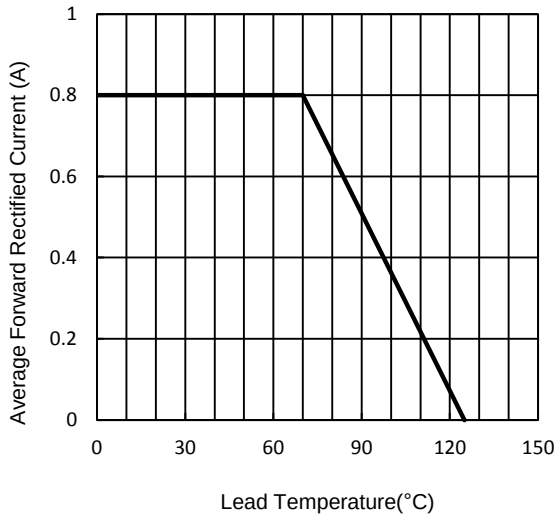


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

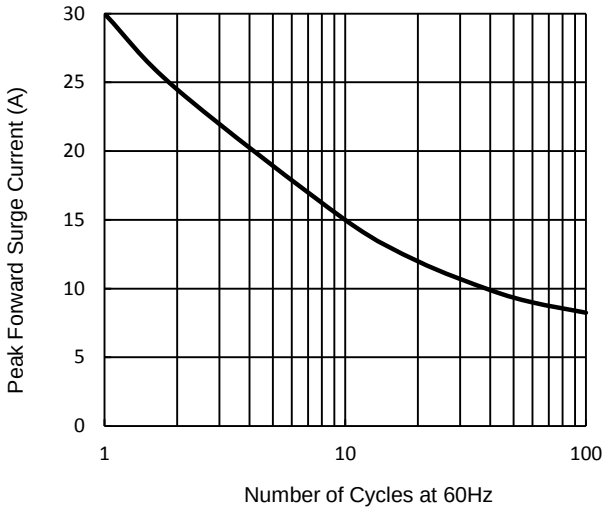


Fig.3 Typical Forward Current Characteristics

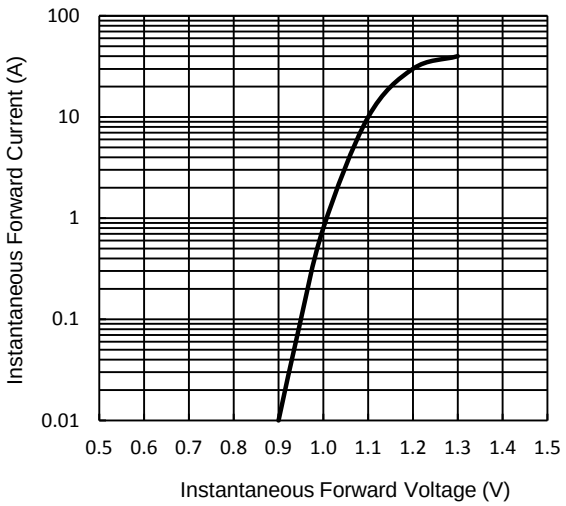
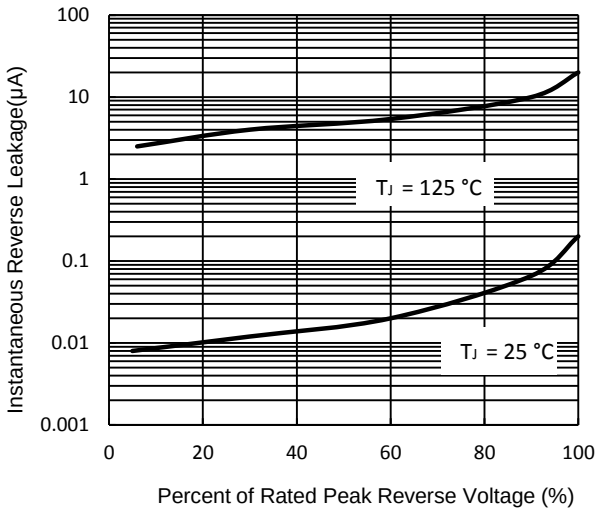


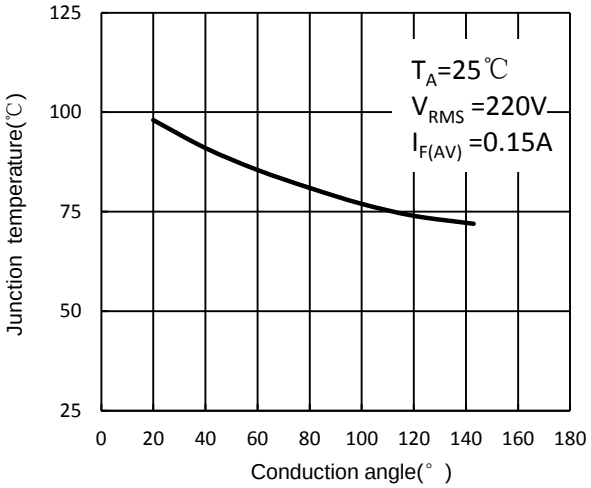
Fig.4 Typical Reverse Characteristics



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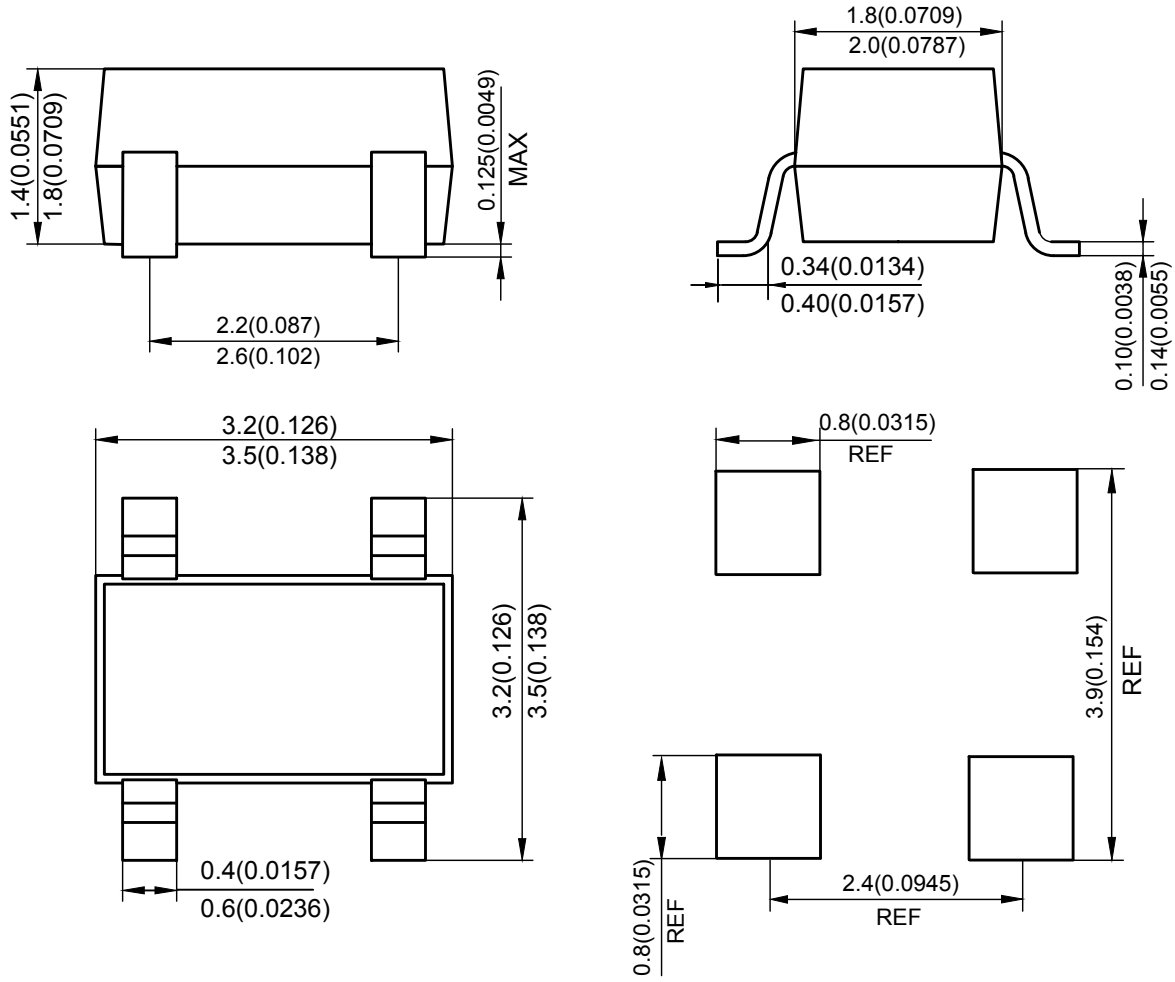
Characteristics Curves

Fig.5 Junction temperature vs. conduction angle



Package Outline

IBS



Dimensions in millimeters(inches)

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