

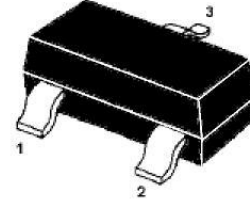


BAV99

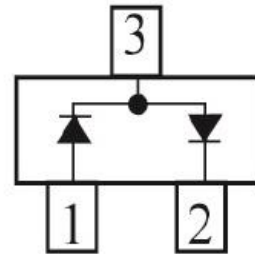
主要参数 MAIN CHARACTERISTICS

$I_{F(AV)}$	215mA
V_{RM}	100V
T_j	150°C
$V_{F(max)}$	1.25V
T_{rr}	4ns

封装 Package



SOT-23



产品特性

- 快速开关速度
- 表面贴装，适用于自动插件
- 用于开关应用
- 高传导性

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications
- High conductance

订货信息 ORDER MESSAGE

订货型号 Order codes				印记 Marking	封装 Package
有卤-条管 Halogen-Tube	无卤-条管 Halogen Free-Tube	有卤-编带 Halogen-Reel	无卤-编带 Halogen Free-Reel		
N/A	N/A	BAV99-N1-A	BAV99-N1-AR	A7	SOT-23





快速开关二极管 Fast Switching Diodes

绝对最大额定值 ABSOLUTE RATINGS ($T_A=25^\circ\text{C}$)

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
反向峰值电压 Peak Reverse Voltage	V_{RM}	100	V
反向击穿电压 Reverse Voltage	V_R	75	V
最大平均正向电流 Maximum Average Forward Current at $T_A=25^\circ\text{C}$	$I_{F(AV)}$	215	mA
非重复峰值正向浪涌电流 at $t = 1 \mu\text{s}$ Non-repetitive Peak Forward Surge Current	I_{FSM}	2	A
耗散功率 Power Dissipation (note 1)	P_D	350	mW
最高结温 Maximum Junction Temperature	T_j	150	$^\circ\text{C}$
储存温度 Storage Temperature Range	T_{STG}	-65~+150	$^\circ\text{C}$

电特性 ELECTRICAL CHARACTERISTICS

项 目 Parameter	符 号 Symbol	最小 Min	最大 MAX	单 位 Unit
最大反向电流 Maximum Reverse Current at $V_R = 25 \text{ V}$ at $V_R = 75 \text{ V}$ at $V_R = 75 \text{ V}, T_J = 150^\circ\text{C}$ at $V_R = 25 \text{ V}, T_J = 150^\circ\text{C}$	I_R	- - - -	30 1 50 30	nA μA μA μA
最大正向电压 Maximum Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 150 \text{ mA}$	V_F	- - - -	0.715 0.855 1.0 1.25	V
反向恢复时间 Reverse Recovery Time at $I_{rr} = 0.1 \times I_R, I_F = I_R = 10 \text{ mA}, R_L = 100 \Omega$	trr	-	4	ns
结电容 Typical Junction Capacitance $V_R = 0 \text{ V}, f = 1.0 \text{ MHz}$	C_J	-	2	pF

热特性 THERMAL CHARACTERISTICS

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
结到环境的热阻 (note 1) Thermal Resistance Junction to Ambient	$R_{\theta JA}$	357	$^\circ\text{C/W}$

NOTE: 1.Part mounted on Polyimide PC board with pad dimensions 1.13mm x 1.27mm.





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

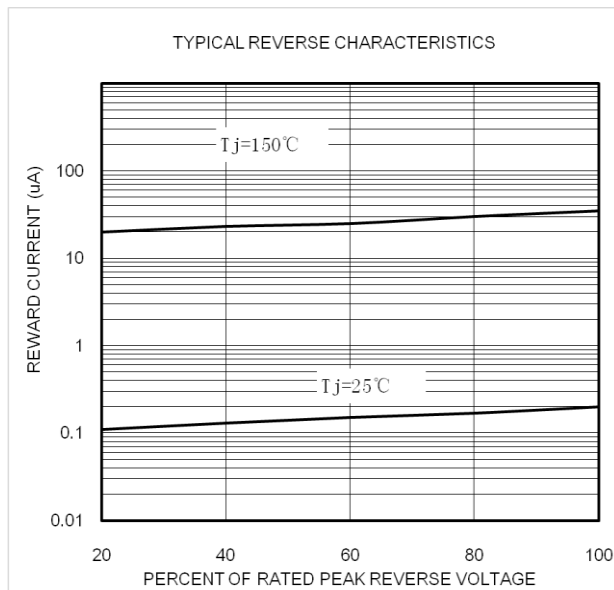
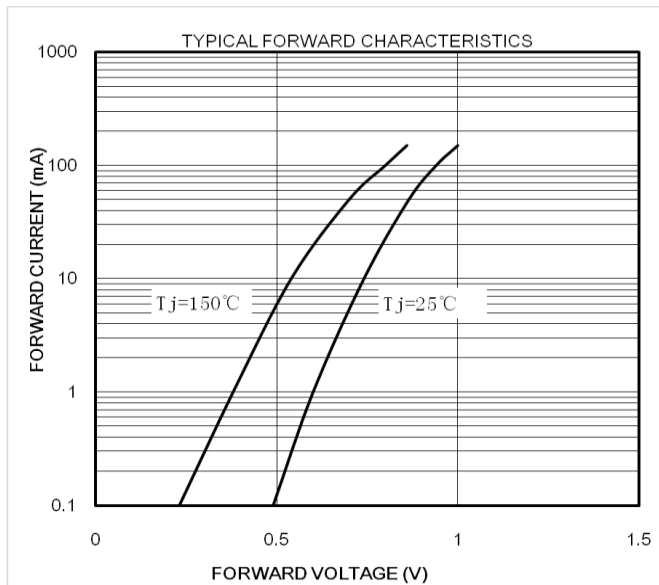
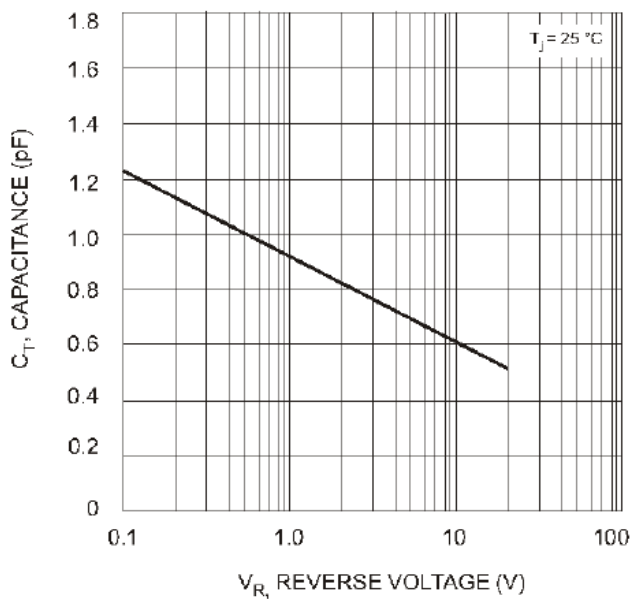


Fig. 1 Forward Characteristics

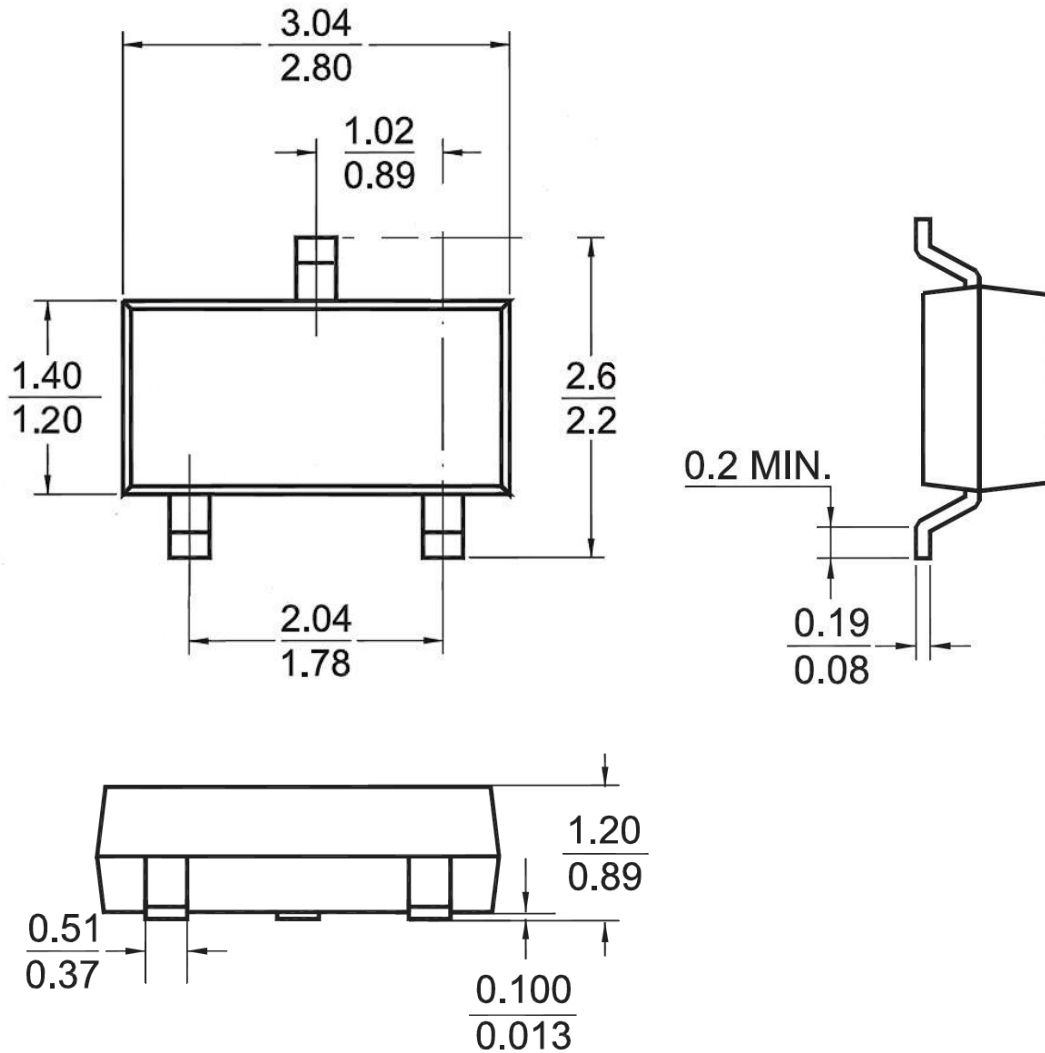




外形尺寸 PACKAGE MECHANICAL DATA

SOT-23

Dimensions in inches and(millimeters)





快速开关二极管 Fast Switching Diodes

注意事项

1. 吉林华微电子股份有限公司的产品销售分为直销和销售代理，无论哪种方式，订货时请与公司核实。
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3. 在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
4. 本说明书如有版本变更不另外告知

NOTE

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2. We strongly recommend customers check carefully on the trademark when buying our product, if there is any question, please don't be hesitate to contact us.
3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
4. Jilin Sino-microelectronics co., Ltd reserves the right to make changes in this specification sheet and is subject to change without prior notice.

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