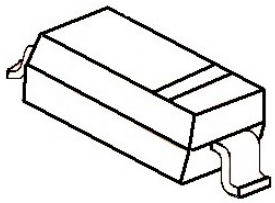
BAV19WS/ BAV20WS/ BAV21WS

250mW SOD-323 Fast Switching Diode

SOD-323 贴片塑封开关二极管

SOD-323



MARKING: BAV19WS: A8
BAV20WS: T2
BAV21WS: T3

特征 Features

- 开关速度小于 50nS; Fast Switching Device (TRR <50nS)
- 最大功率耗散 250mW; Power Dissipation of 250mW
- 高稳定性和可靠性。High Stability and High Reliability
- 反向漏电流小。Low reverse leakage

机械数据 Mechanical Data

- 封装: SOD-323 封装 SOD-323 Small Outline Plastic Package
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 环氧树脂 UL 易燃等级 Epoxy UL: 94V-0
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性(TA = 25℃ 除非另有规定)

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

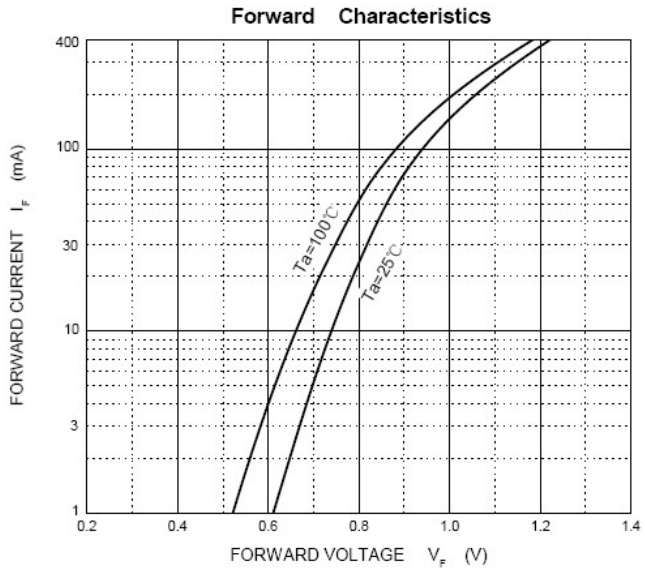
参数 Parameters	符号 Symbol	数值 Value			单位 Unit
		BAV19WS	BAV20WS	BAV21WS	
反向电压 Reverse Voltage	VR	120	200	250	V
反向峰值电压 Peak Reverse Voltage	VRM	100	150	250	V
功率消耗 Power Dissipation	Pd	250			mW
工作结温 Operating junction temperature	Tj	150			℃
存储温度 Storage temperature range	Ts	-65-+150			℃
热阻 Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500			℃/W
平均整流电流 Average Rectified Current	IO	200			mA
正向(不重复)电流 Non-repetitive Peak Forward Current	IFM	400			mA
正向(不重复)浪涌电流 Peak Forward Surge Current @tp=1ms; TA=25℃	IFSM	1.7			A

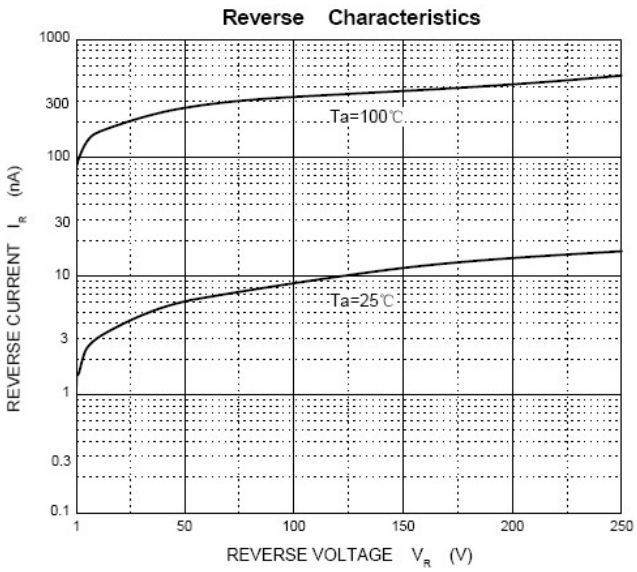
Valid provided that electrodes are kept at ambient temperature.

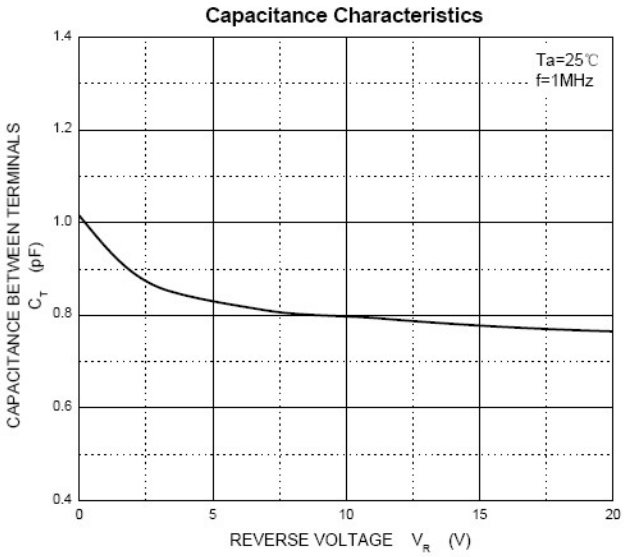
电特性 Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified).

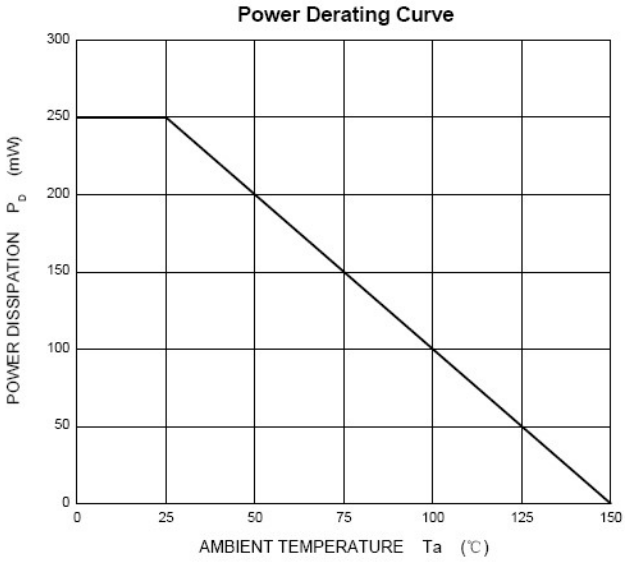
符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
VRB	反向击穿电压 Reverse Voltage	IB=100uA BAV19WS BAV20WS BAV21WS	120 200 250	---	V
IR	反向漏电电流	VR=100V BAV19WS VR=150V BAV20WS VR=200V BAV21WS	---	0.1	uA
	Reverse Leakage Current				
VF	正向电压	IF=100mA	---	1.00	V
	Forward Voltage	IF=200mA	---	1.25	
TRR	反向恢复时间	IF= 30mA, IR=30mA	---	50	nS
	Reverse Recovery Time	RL=100Ω			
		IRR=3mA			
C	结电容	VR=0V, f=1MHZ	---	5	pF
	Capacitance				

Ratings And Characteristic Curves





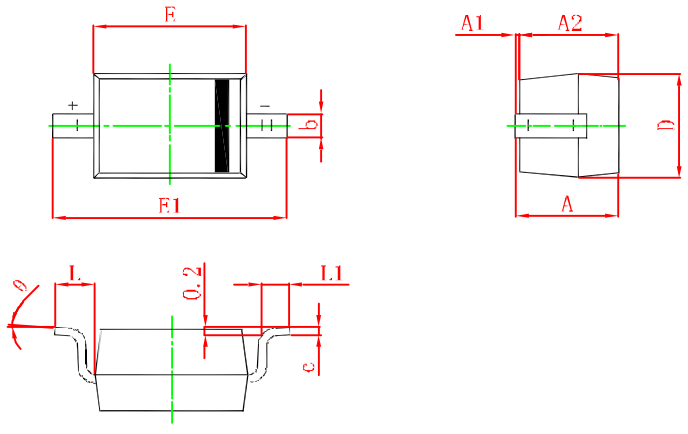




SOD-323 PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°