



特征 Features

- 开关速度小于 50nS; Fast Switching Device (TRR <50 nS)
- 最大功率耗散 400mW; Power Dissipation of 400mW
- 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: LL-34 玻璃封装 Case: LL-34 Glass Case
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 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
		BAV100	BAV101	BAV102	BAV103	
反向电压 Reverse Voltage	V _R	50	100	150	200	V
最大反向电压 Maximum Repetitive Reverse Voltage	V _{RRM}	60	120	200	250	V
功率消耗 Power Dissipation	P _d	400				mW
工作结温 Operating junction temperature	T _j	175				℃
存储温度 Storage temperature range	T _s	-65-+175				℃
直流正向电流 Forward DC Current at (TA = 25℃)	I _F	250				mA
平均正向电流 Average Forward Current(TA=25℃ & f≧ 50Hz)	I _{F(AV)}	200				mA
正向重复电流 Repetitive Peak Forward Current	I _{FRM}	625				mA
正向(不重复)浪涌电流 Peak Forward Surge Current @tp=1s; TA=25℃	I _{FSM}	1.0				A

电特性 (TA = 25℃ 除非另有规定)

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	
I _R	反向漏电流 Leakage Current	BAV100	V _R =50V; T _j =25℃	---	100	nA
		BAV101	V _R =100; T _j =25℃			
		BAV102	V _R =150; T _j =25℃			
		BAV103	V _R =200; T _j =25℃			
V _F	正向电压 Forward Voltage		I _F =100mA	---	1.00	V
			I _F =200mA		1.25	
TRR1	反向恢复时间 Reverse Recovery Time		I _F = 30mA to I _R = 30mA, I _{rr} = 3mA, R _L = 100.	---	50	nS
C _{tot}	结电容 Total Capacitance		at V _R = 0, f = 1MHz	---	1.5	pF
r _f	Dynamic Forward Resistance		I _F =10mA	5		Ω