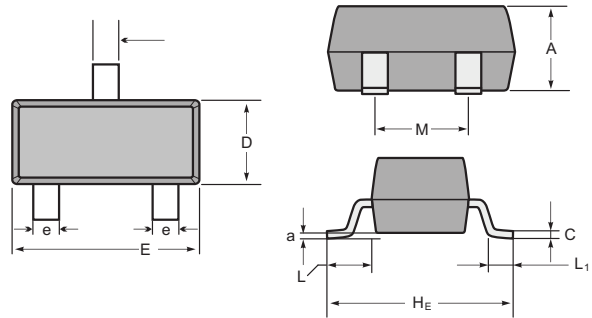
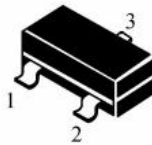


Internal Configuration & Device Marking

内部结构与产品打标

Type 型号	BAS16	BAW56
Pin 管脚	1  3 2 	1  3 2 
Mark 打标	A6	A1
Type 型号	BAV70	BAV99
Pin 管脚	1  3 2 	1  3 2 
Mark 打标	A4	A7



SOT-23 mechanical data

UNIT		A	C	D	E	HE	e	M	L	L1	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

Absolute Maximum Ratings 最大额定值

Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
Peak Reverse Voltage 反向峰值电压	V_{RRM}	80	V
Reverse Work Voltage 反向工作电压	V_{RWM}		
DC Reverse Voltage 直流反向电压	V_R		
Forward Work Current 正向工作电流	$I_F(I_O)$	150	mA
Peak Forward Current 正向峰值电流	I_{FM}	300	mA
Power dissipation 耗散功率	$P_D(T_a=25^\circ C)$	225	mW
Thermal Resistance J-A 结到环境热阻	$R_{\theta JA}$	555	$^\circ C/W$
Junction and Storage Temperature 结温和储藏温度	T_J, T_{stg}	-55to+150 $^\circ C$	

BAS16/BAW56/BAV70/BAV99

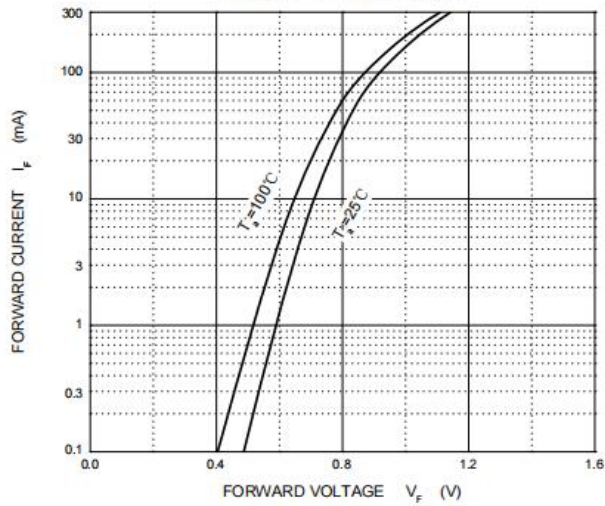
Electrical Characteristics 电特性

(TA=25℃ unless otherwise noted 如无特殊说明，温度为 25℃)

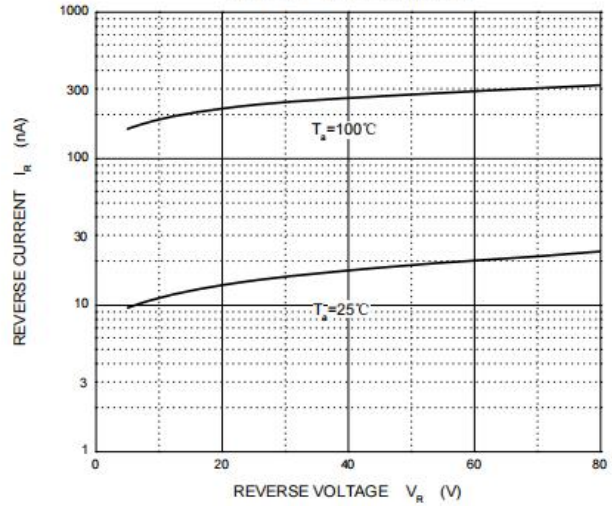
Characteristic 特性参数	Symbol 符号	Min 最小值	Max 最大值	Unit 单位
Reverse Breakdown Voltage 反向击穿电压(IR=100μA)	V _(BR)	80	—	V
Reverse Leakage Current 反向漏电流(VR=80V)	I _R	—	1	μA
Forward Voltage(IF=1mA) 正向电压(IF=10mA) (IF=50mA) (IF=150mA)	V _F	—	0.65 0.8 0.9 1.2	V
Diode Capacitance 二极管电容(VR=0V, f=1MHz)	C _D	—	3	pF
Reverse Recovery Time 反向恢复时间	T _{rr}	—	4	nS

RATING AND CHARACTERISTIC CURVES (BAS16/BAW56/BAV70/BAV99)

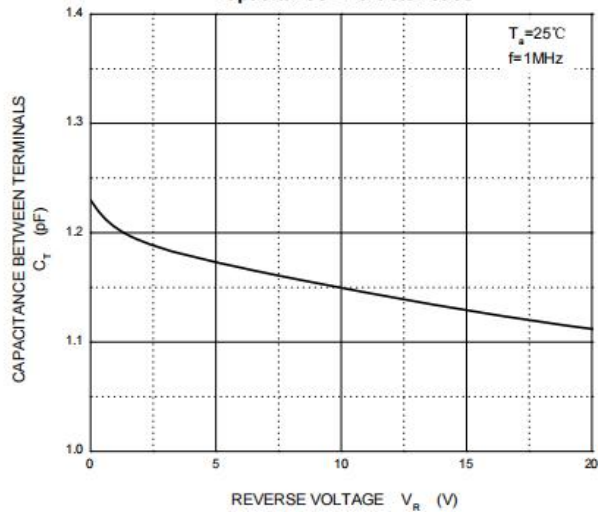
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

