

产品规格书

批准	审核	校核	编制
纪春华	朴致均	赵宇辉	郑羿
2019.02.14	2019.02.14	2019.02.14	2019.02.14

规格书更改履历:

序号	更改内容	履历号	更改时间	责任人
1	新规制定	000	2019.02.14	郑羿

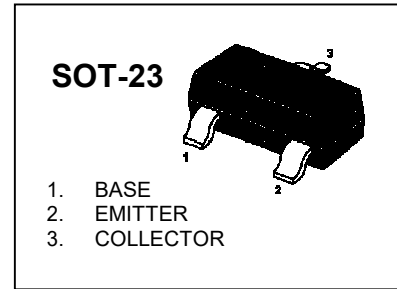
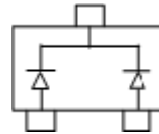
SOT-23 Plastic-Encapsulate Diodes

BAV70 SWITCHING DIODES

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

MARKING: A4



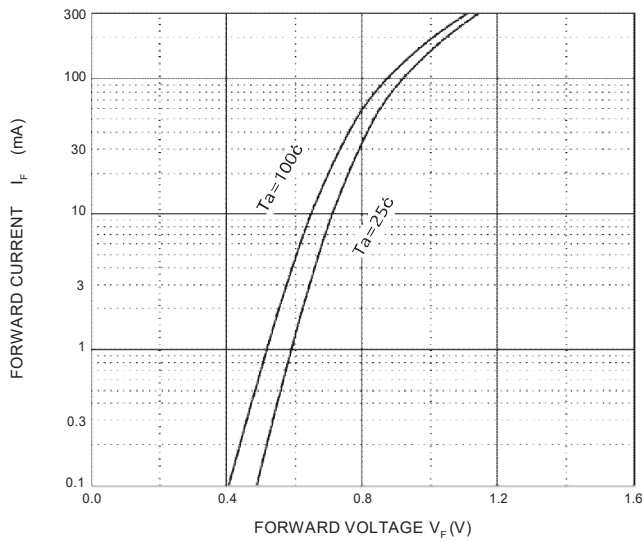
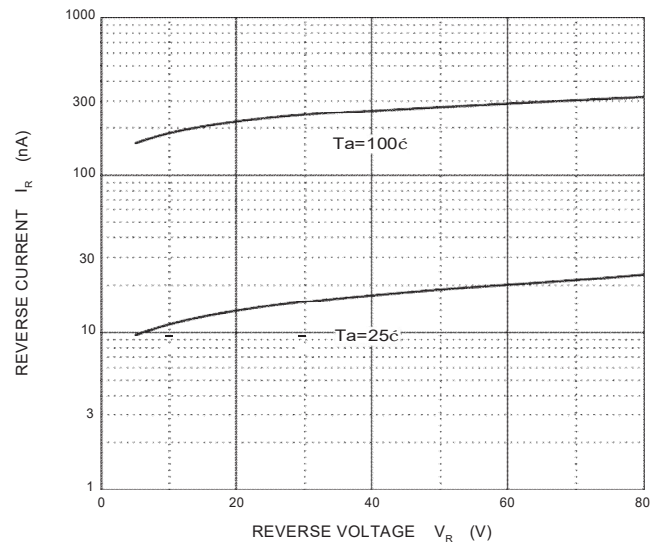
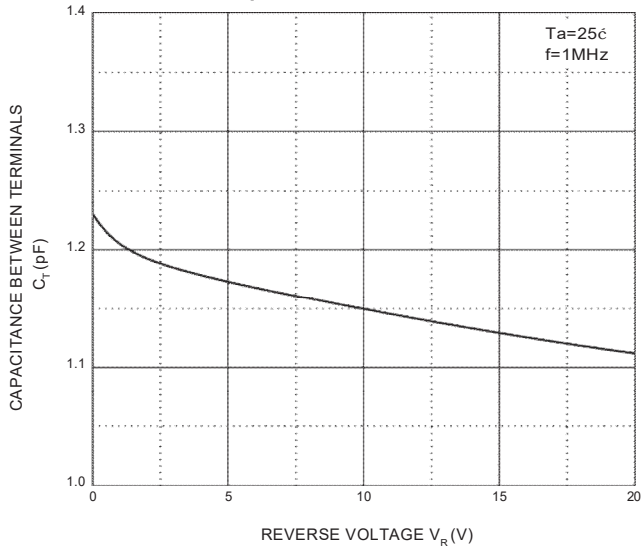
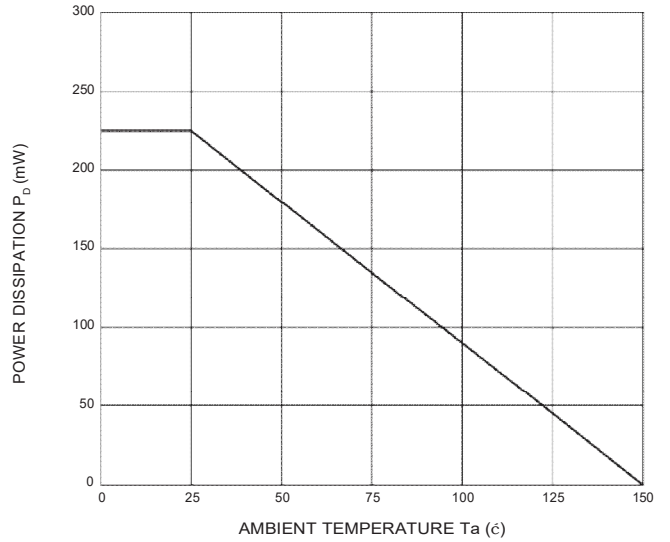
Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
Reverse Breakdown Voltage	V_{RM}	70	V
DC Blocking Voltage	V_R	70	V
Forward Current	I_F	200	mA
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2.0	A
Power Dissipation	P_D	225	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	556	°C/W
Junction Temperature	T_J	150	°C
Storage Temperature range	T_{STG}	-55~+150	°C

Electrical Characteristics @Ta=25°C

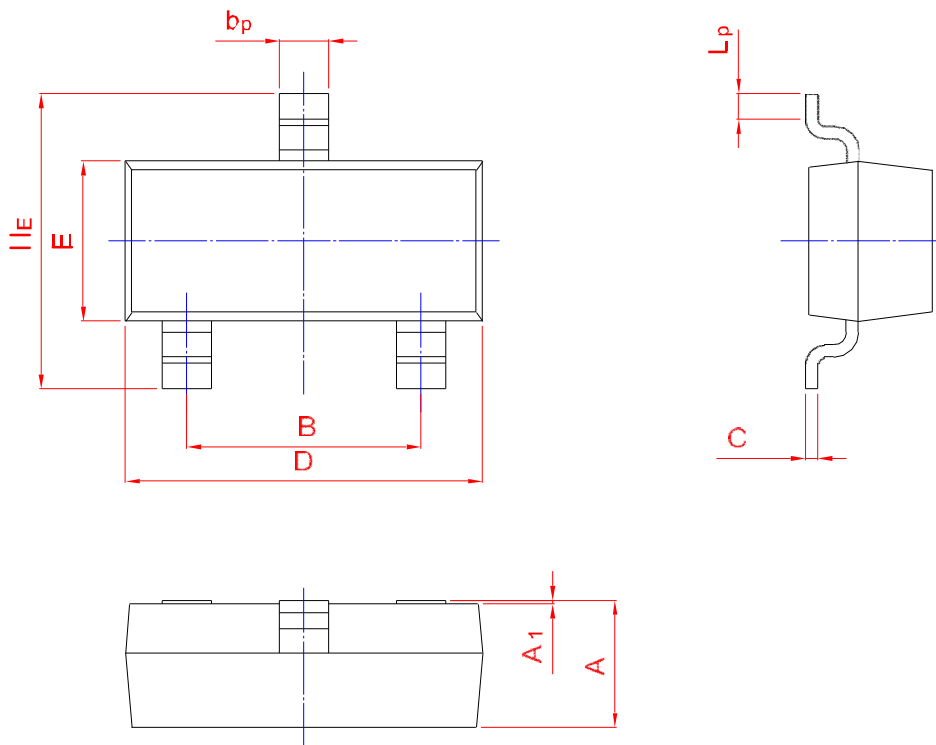
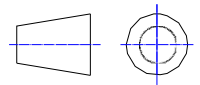
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V_R	70			V	$I_R=100\mu A$
Forward voltage	V_{F1}			0.715	V	$I_F=1mA$
	V_{F2}			0.855	V	$I_F=10mA$
	V_{F3}			1	V	$I_F=50mA$
	V_{F4}			1.25	V	$I_F=150mA$
Reverse current	I_R			2.5	μA	$V_R=70V$
Capacitance between terminals	C_T			1.5	pF	$V_R=0, f=1MHz$
Reverse recovery time	t_{rr}			6	ns	$I_F = I_R = 10mA,$ $I_{rr} = 0.1 \times I_R, R_L = 100K$

Typical Characteristics

Forward Characteristics

Reverse Characteristics

Capacitance Characteristics

Power Derating Curve


PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23


UNIT	A	B	b _p	C	D	E	HE	A ₁	L _p
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20

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