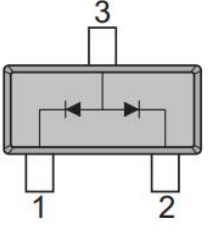
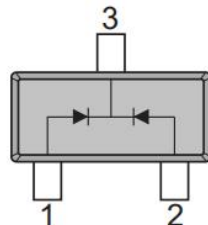
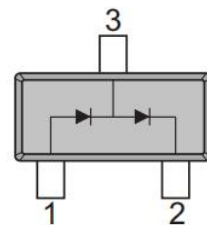
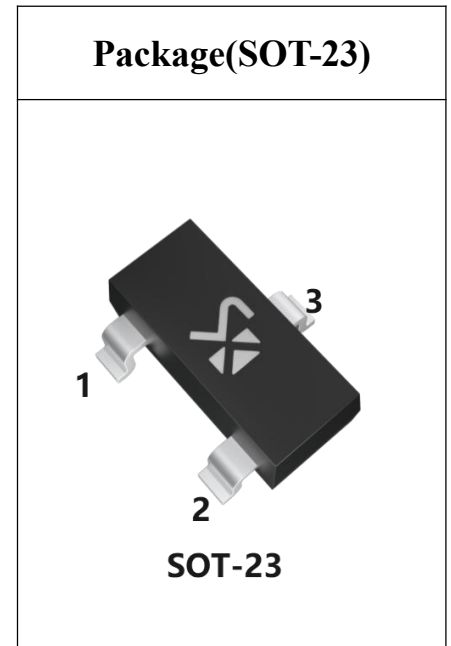


Switching Diode

Features

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

BAW56	BAV70	BAV99
		
MARKING:A1	MARKING:A4	MARKING:A7



Absolute Maximum Ratings (T_A=25°C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V _R	70	V
Forward Current	I _F	200	mA
Non-Repetitive Peak Forward Surge Current @t=1ms	I _{FSM}	1.0	A
Power Dissipation	P _D	225	mW
Thermal Resistance Junction to Ambient	R _{thJA}	556	°C/W
Operation Junction and Storage Temperature Range	T _J ,T _{STG}	-55~150	°C

Electrical Characteristics (T_A=25°C)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse breakdown voltage	V _R	I _R =100μA	70			V
Forward voltage	V _{F1}	I _F =1mA			0.715	V
	V _{F2}	I _F =10mA			0.855	V
	V _{F3}	I _F =50mA			1	V
	V _{F4}	I _F =150mA			1.25	V
Reverse current	I _R	V _R =70V			2.5	μA
Capacitance between terminals	C _T	V _R =0, f=1MHz			1.5	pF
Reverse recovery time	t _{rr}	I _F = I _R =10mA, I _{rr} =0.1×I _R , R _L =100Ω			6	ns

Typical Characteristics

Fig.1 Power Derating Curve

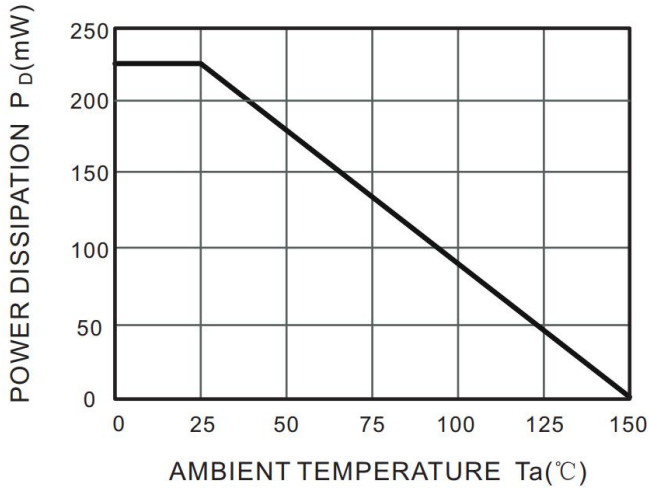


Fig.2 Reverse Characteristics

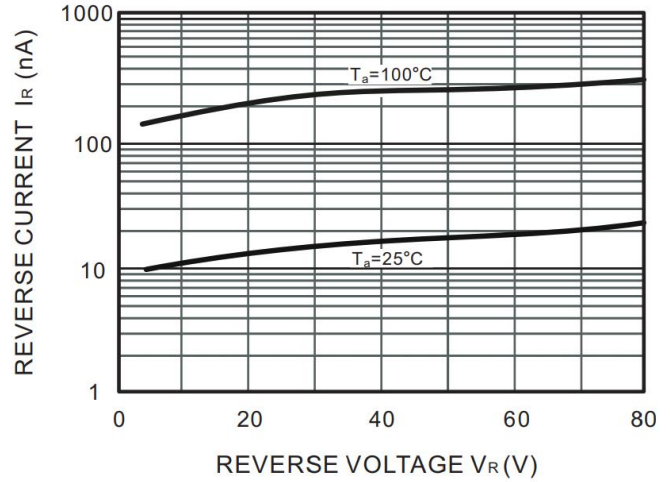


Fig.3 Forward Characteristics

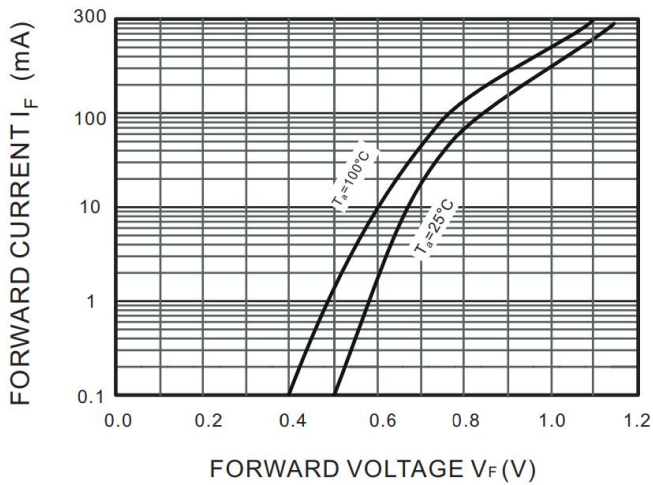
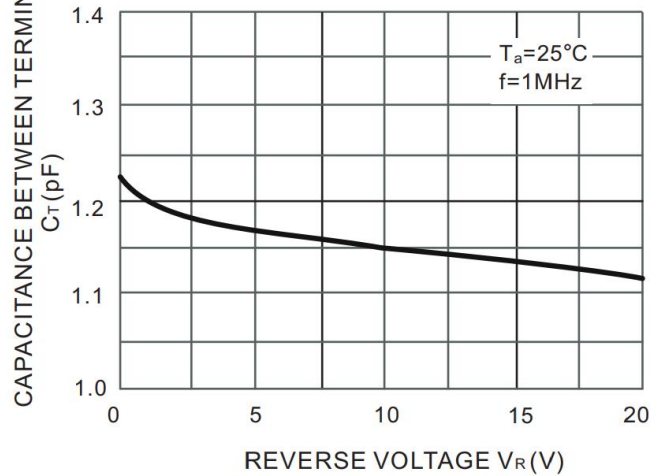


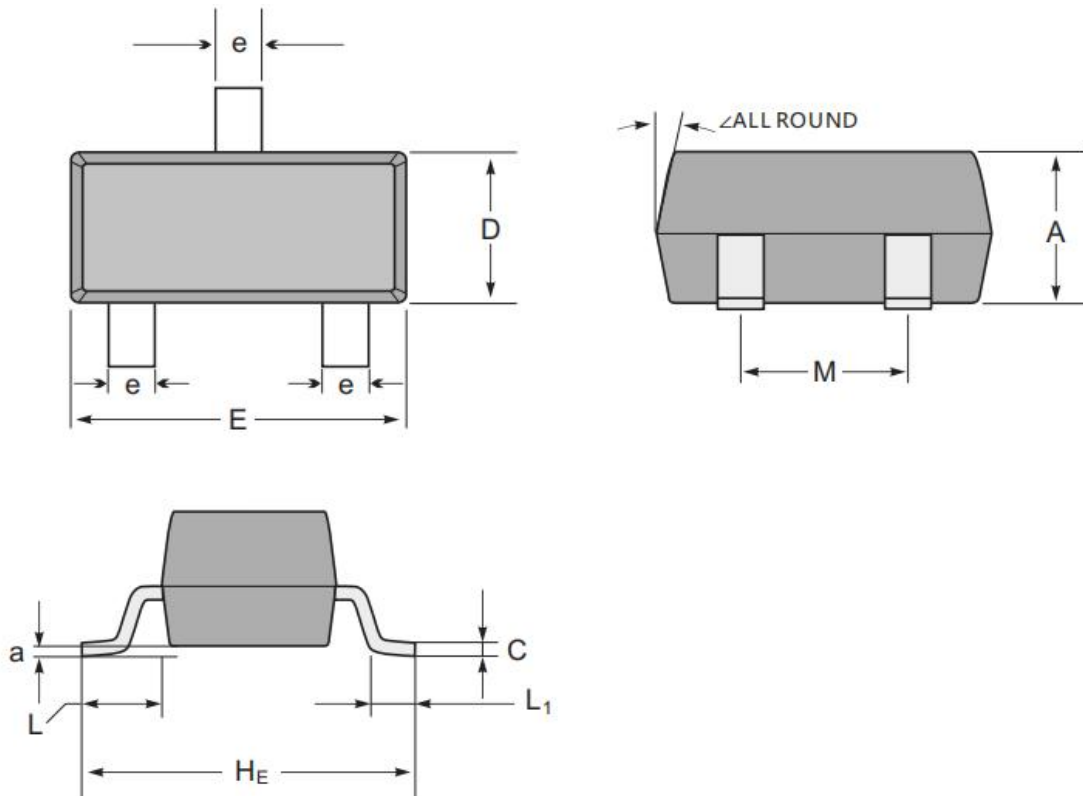
Fig.4 Capacitance Characteristics



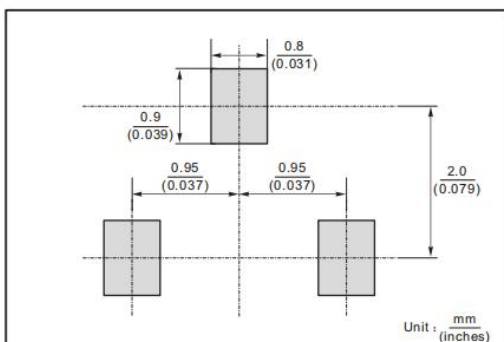
Package Information

SOT-23

Dimensions in mm



The recommended mounting pad size



UNIT	A	C	D	E	H_E	e	M	L	L_1	a	\angle
mm	max	1.1	0.20	1.4	3.0	0.6	1.95	0.55 (ref)	0.36 (ref)	0.15	12°
	min	0.9	0.08	1.2	2.8	0.35	1.7			0.0	
mil	max	43	7.9	55	118	24	77	22 (ref)	14 (ref)	6	
	min	35	3.1	47	110	13	67			0.0	