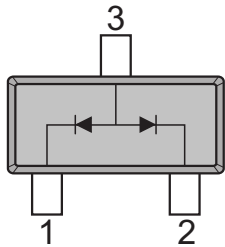
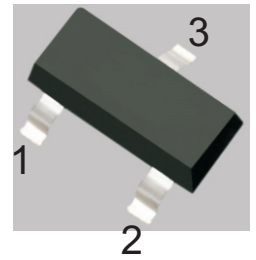


Switching Diodes

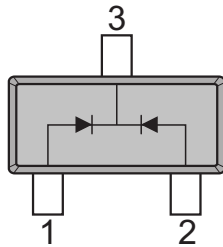
FEATURES

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

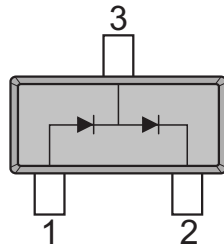
SOT-23



BAW56



BAV70



BAV99

Maximum Ratings @Ta=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=8.3ms	I _{FSM}	2.0	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@Ta=25°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V _R	I _R =100μA	70			V
Forward voltage	V _{F1}	I _F =1 mA			0.715	V
	V _{F2}	I _F =10mA			0.855	V
	V _{F3}	I _F =50mA			1	V
	V _{F4}	V _R =150mV			1.25	V
Reverse current	I _R	V _R =70V			2.5	uA
Capacitance between terminals	t _{rr}	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

Fig.1 Power Derating Curve

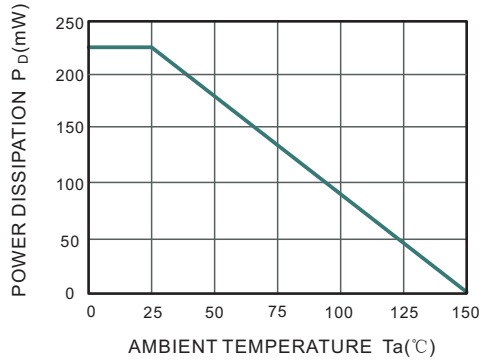


Fig.2 Reverse Characteristics

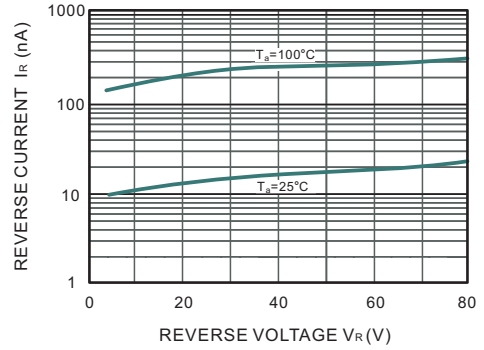


Fig.3 Forward Characteristics

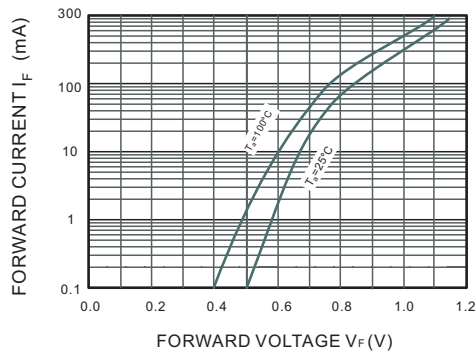
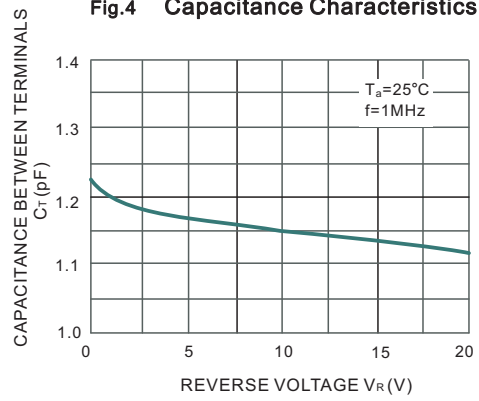
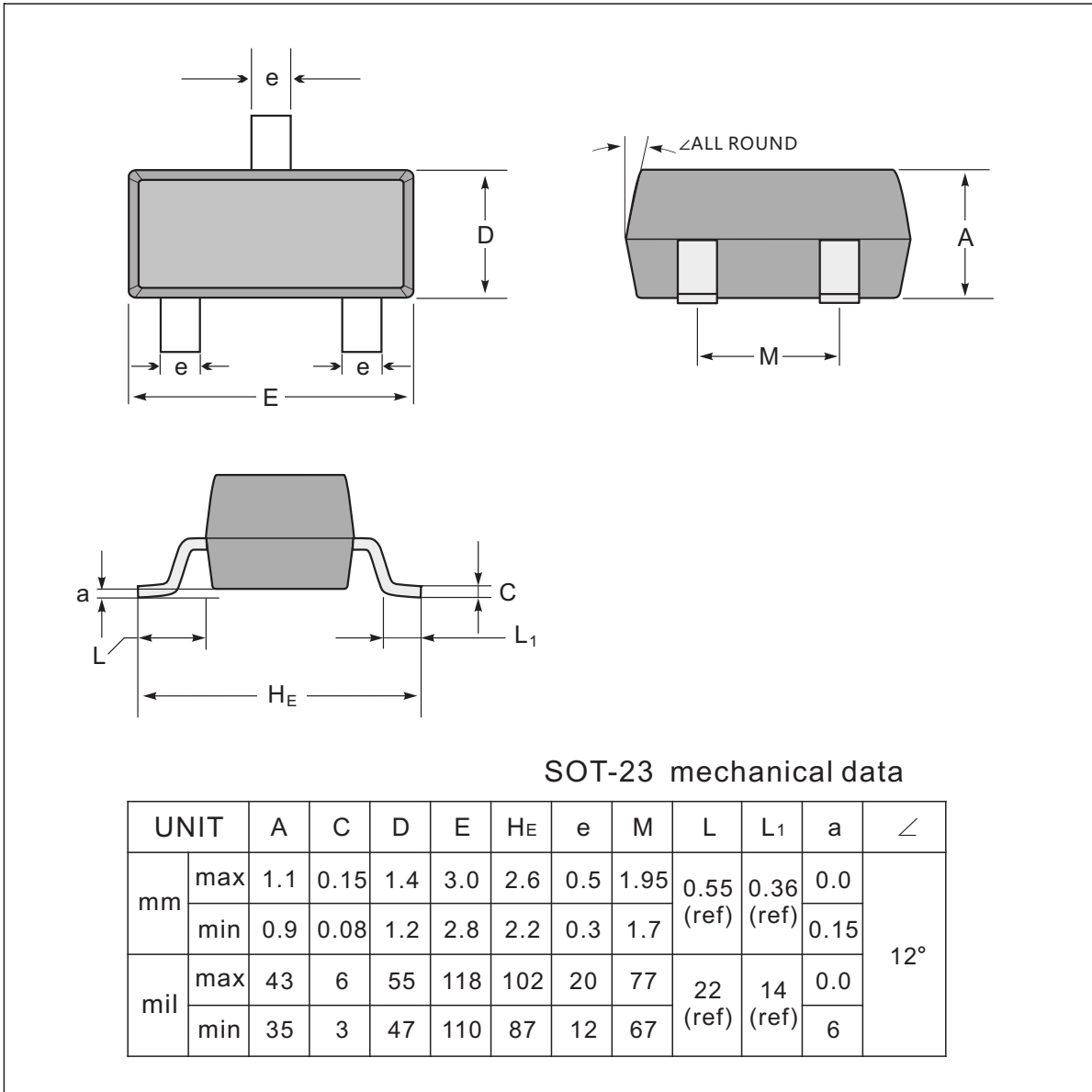


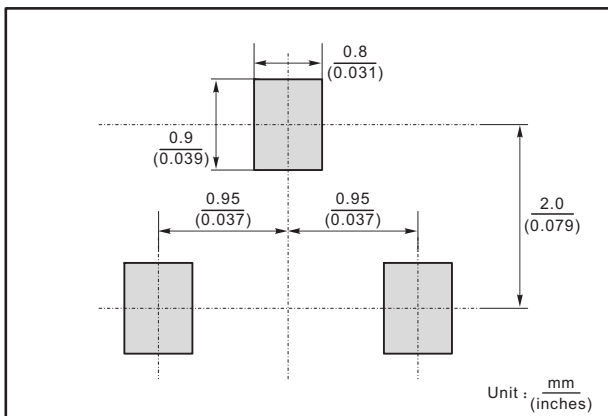
Fig.4 Capacitance Characteristics



SOT-23 Package Outline Dimensions



The recommended mounting pad size

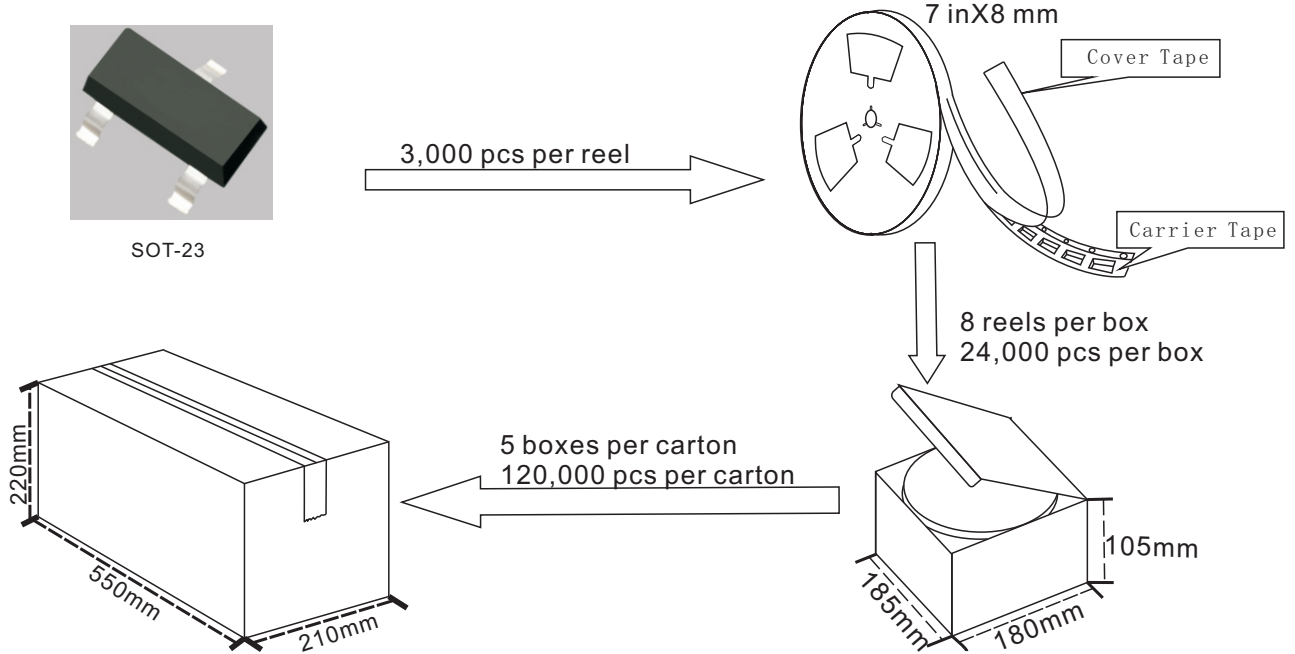


Marking

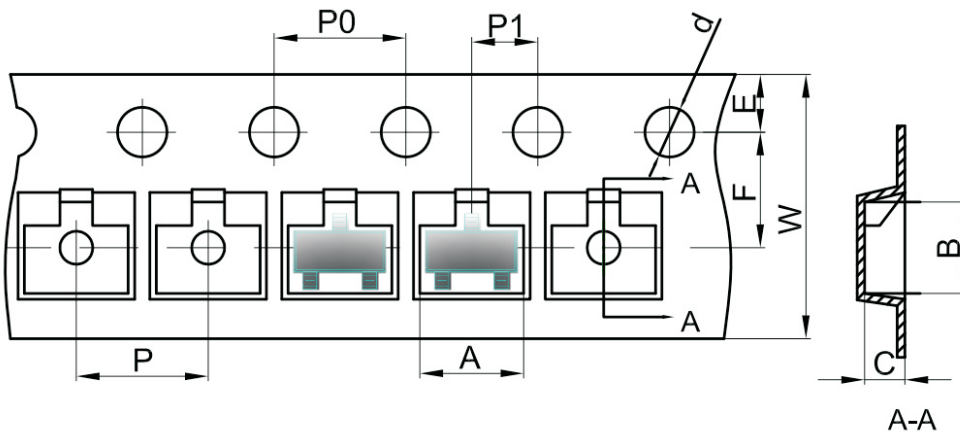
Type number	Marking code
BAW56	A1
BAV70	A4
BAV99	A7

SOT-23 Packing

1. The method of packaging and dimension are shown as below figure. (Dimension in mm)



SOT-23 Embossed Carrier Tape



Dimensions are in millimeter

Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer

