

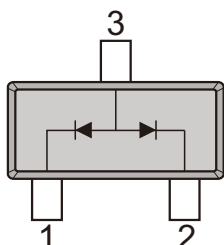
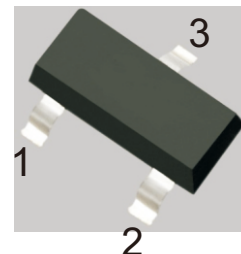


Switching Diodes

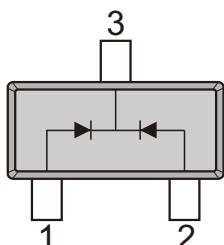
FEATURES

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

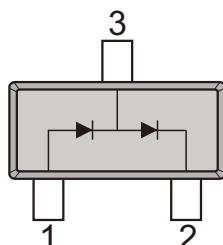
SOT-23



BAW56WD



BAV70WD



BAV99WD

Maximum Ratings @Ta=25°C

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	100	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 ⁽¹⁾	$R_{\theta JA}$	556	°C/W
Operation Junction and Storage Temperature Range	T_J, T_{STG}	-55 ~ +150	°C

(1) The data tested by surface mounted on a 1 inch FR-4 board with 1OZ copper

Electrical Characteristics @Ta=25°C

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



Fig.1 Power Derating Curve

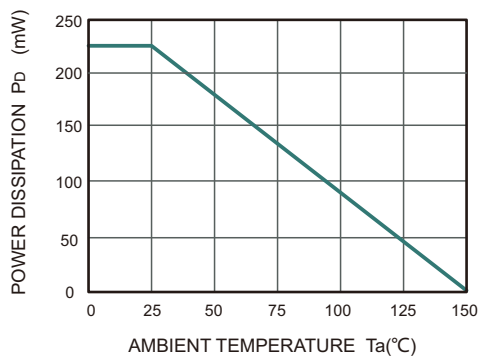


Fig.2 Typical Reverse Characteristics

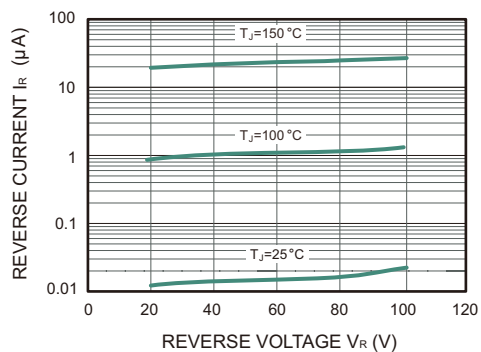


Fig.3 Forward Characteristics

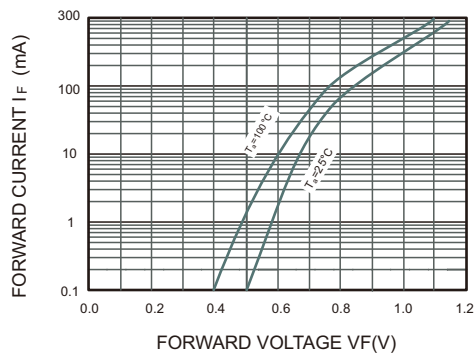
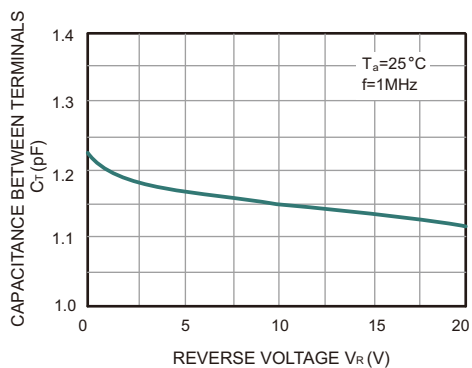
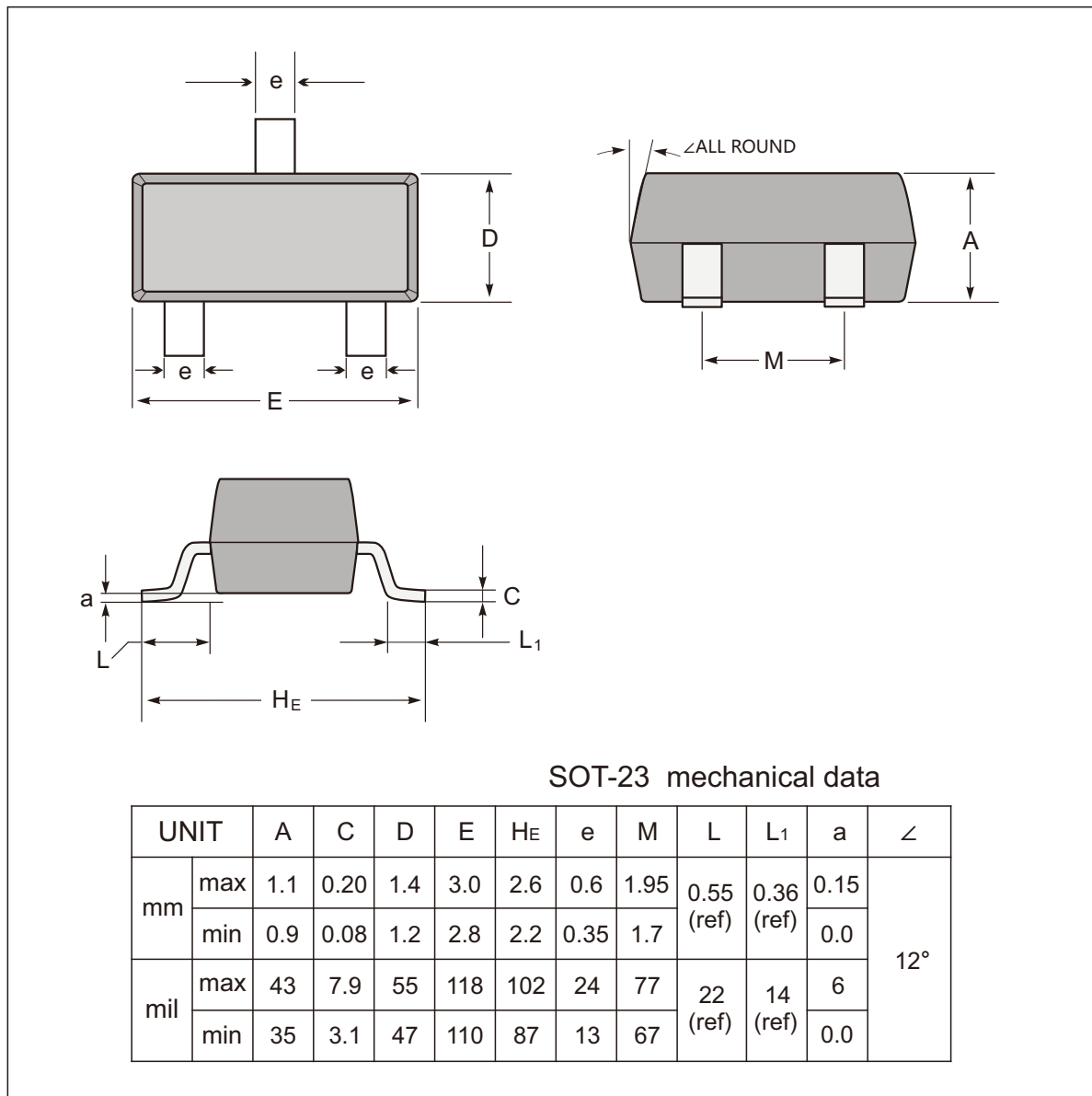


Fig.4 Capacitance Characteristics

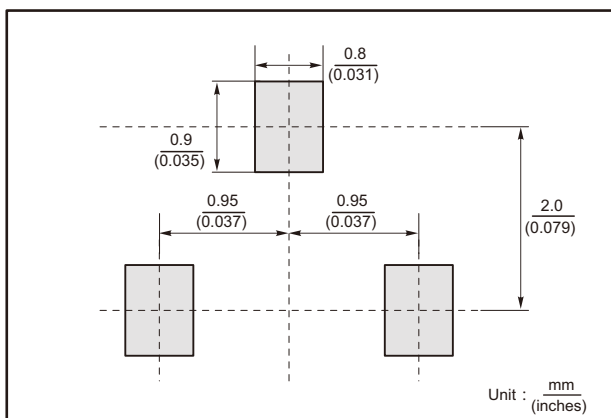




SOT-23 Package Outline Dimensions



The recommended mounting pad size



Marking

Type number	Marking code
BAW56WD	A1
BAV70WD	A4
BAV99WD	A7



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