

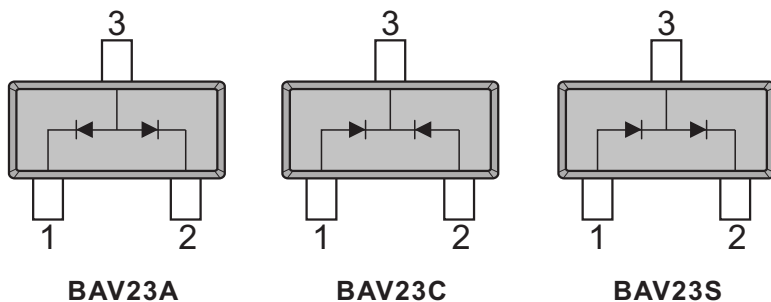
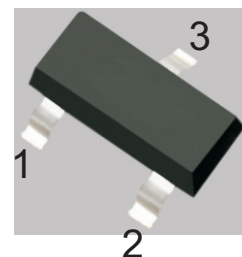


Switching Diodes

FEATURES

- Fast Switching Speed
- Surface mount package ideally Suited for Automatic Insertio
- High Conductance

SOT-23



Maximum Ratings @Ta=25°C

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	V _{RRM}	250	V
Average rectified output current	I _o	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	1.0	A
Power dissipation	P _D	350	mW
Thermal resistance junction to ambient	R _{thJA}	357	°C/W
Junction temperature	T _J	150	°C
Storage temperature range	T _{STG}	-55 ~ +150	°C

Electrical Characteristics@Ta=25°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V _{BR}	I _R =100μA	250			V
Reverse voltage leakage current	I _R	V _R =200V			0.1	uA
Forward voltage	V _F	I _F =100mA I _F =200mA			1.0 1.25	V
Diode capacitance	C _D	V _R =0V, f=1MHz		5		pF
Reveres recovery time	t _{rr}	I _F =I _R =30mA, V _R =6V I _{rr} =3mA, R _L =100Ω			50	ns



Fig.1 Power Derating Curve

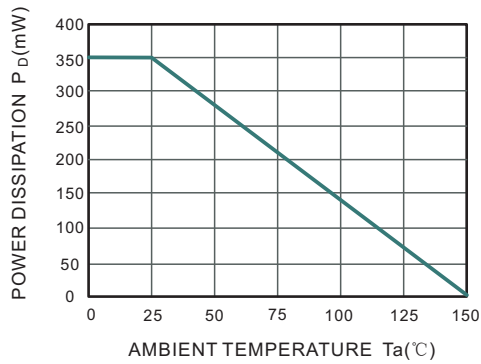


Fig.2 Reverse Characteristics

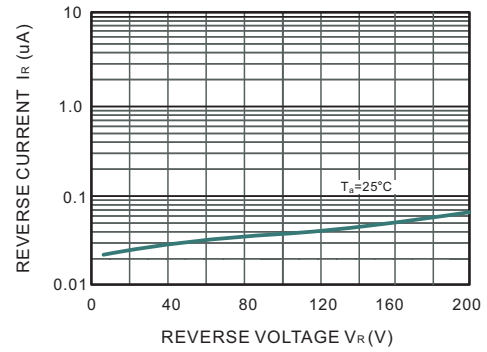


Fig.3 Forward Characteristics

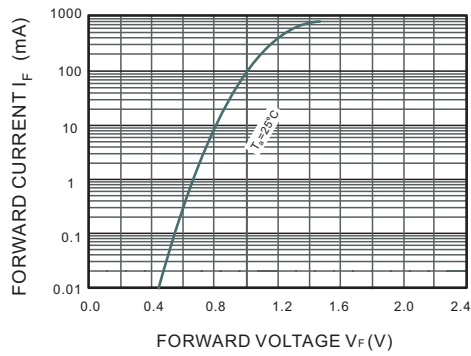
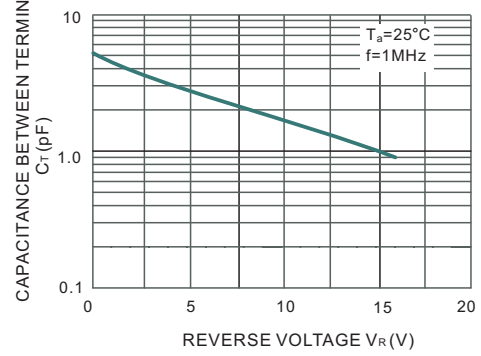
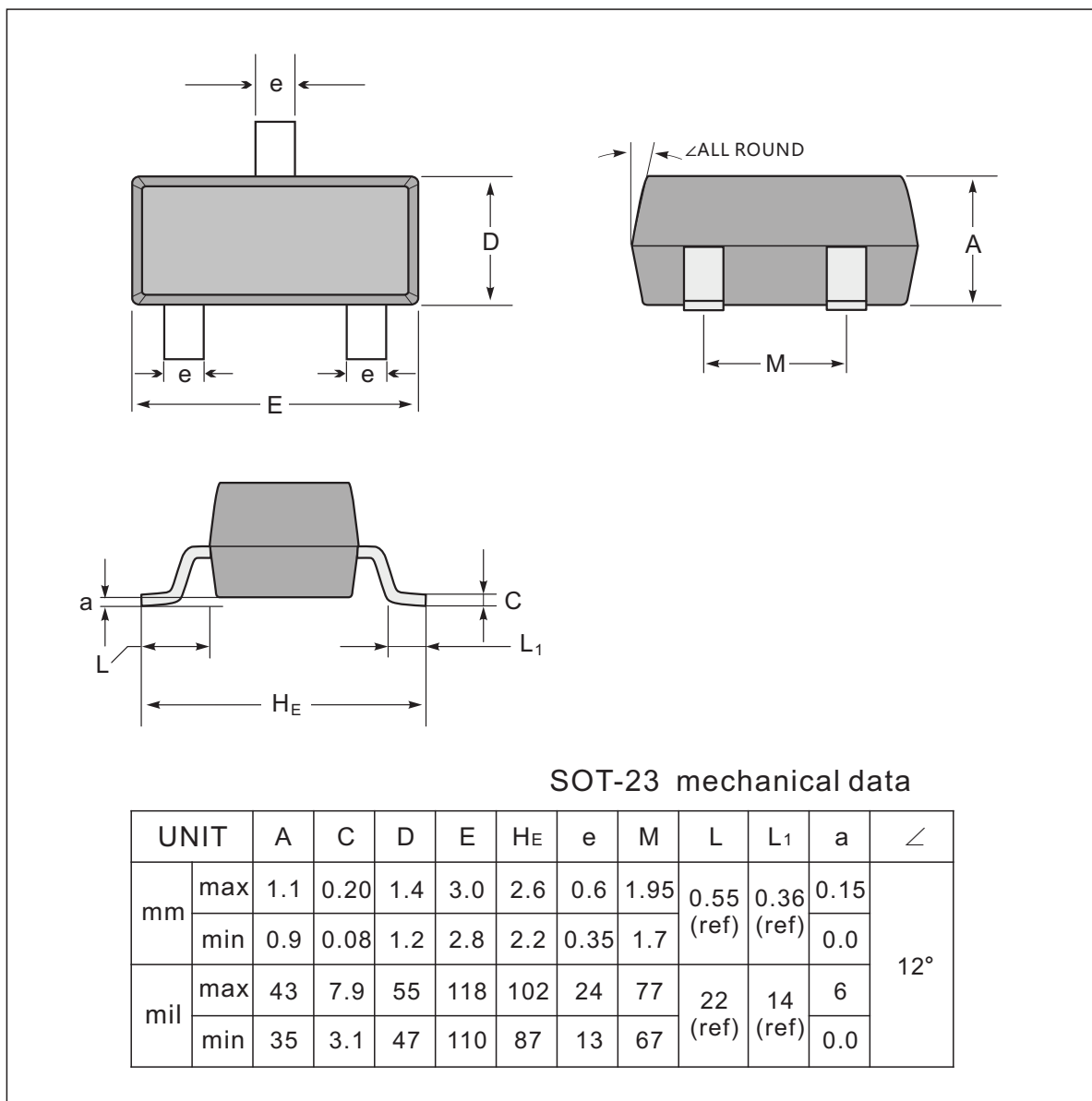


Fig.4 Capacitance Characteristics

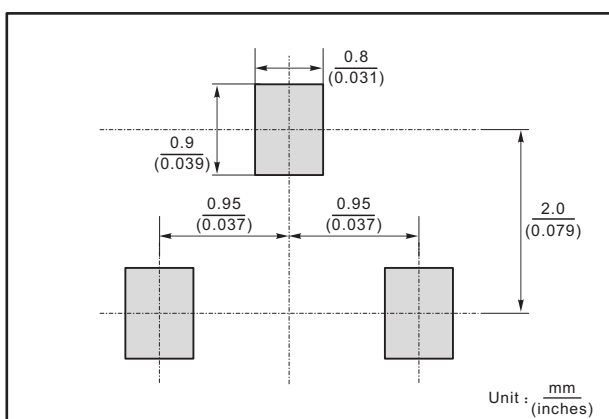




SOT-23 Package Outline Dimensions



The recommended mounting pad size



Marking

Type number	Marking code
BAV23A	KT7
BAV23C	KT6
BAV23S	KL31

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