



# BAV23/A/C/S

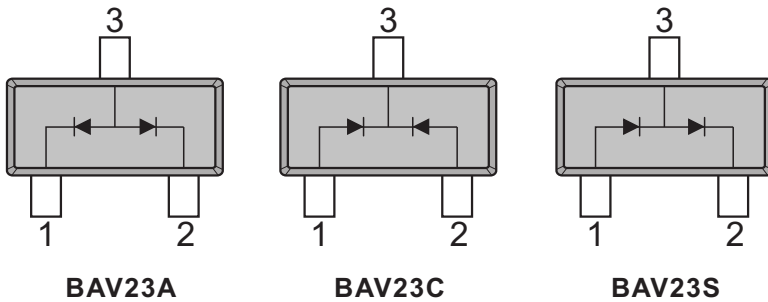
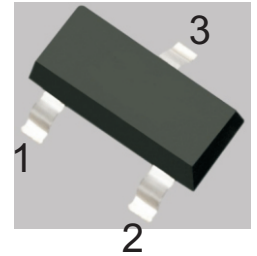
## High Voltage Switching Diode

### 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	$V_{BR}$	$I_R=100\mu A$	250			V
Reverse voltage leakage current	$I_R$	$V_R=200V$			0.1	$\mu A$
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	$t_{rr}$	$I_F=I_R=30mA, V_R=6V$ $I_{rr}=3mA, R_L=100\Omega$			50	ns



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## High Voltage Switching Diode

Fig.1 Power Derating Curve

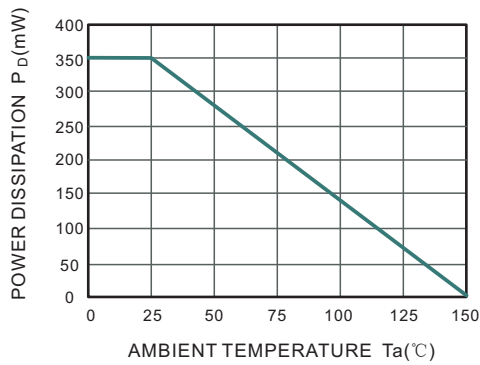


Fig.2 Reverse Characteristics

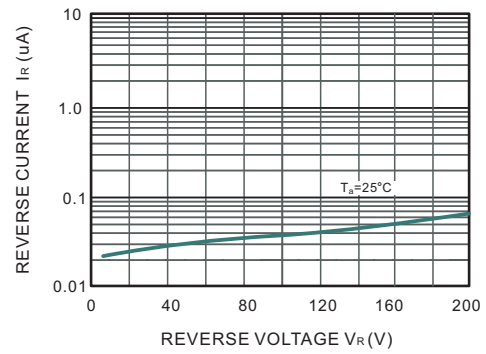


Fig.3 Forward Characteristics

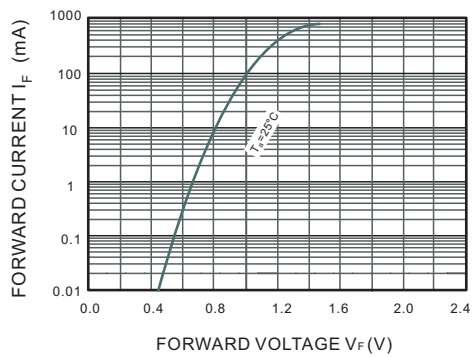
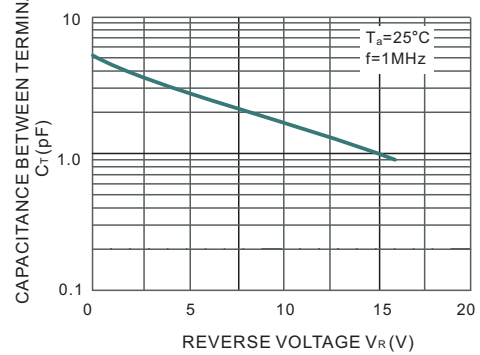


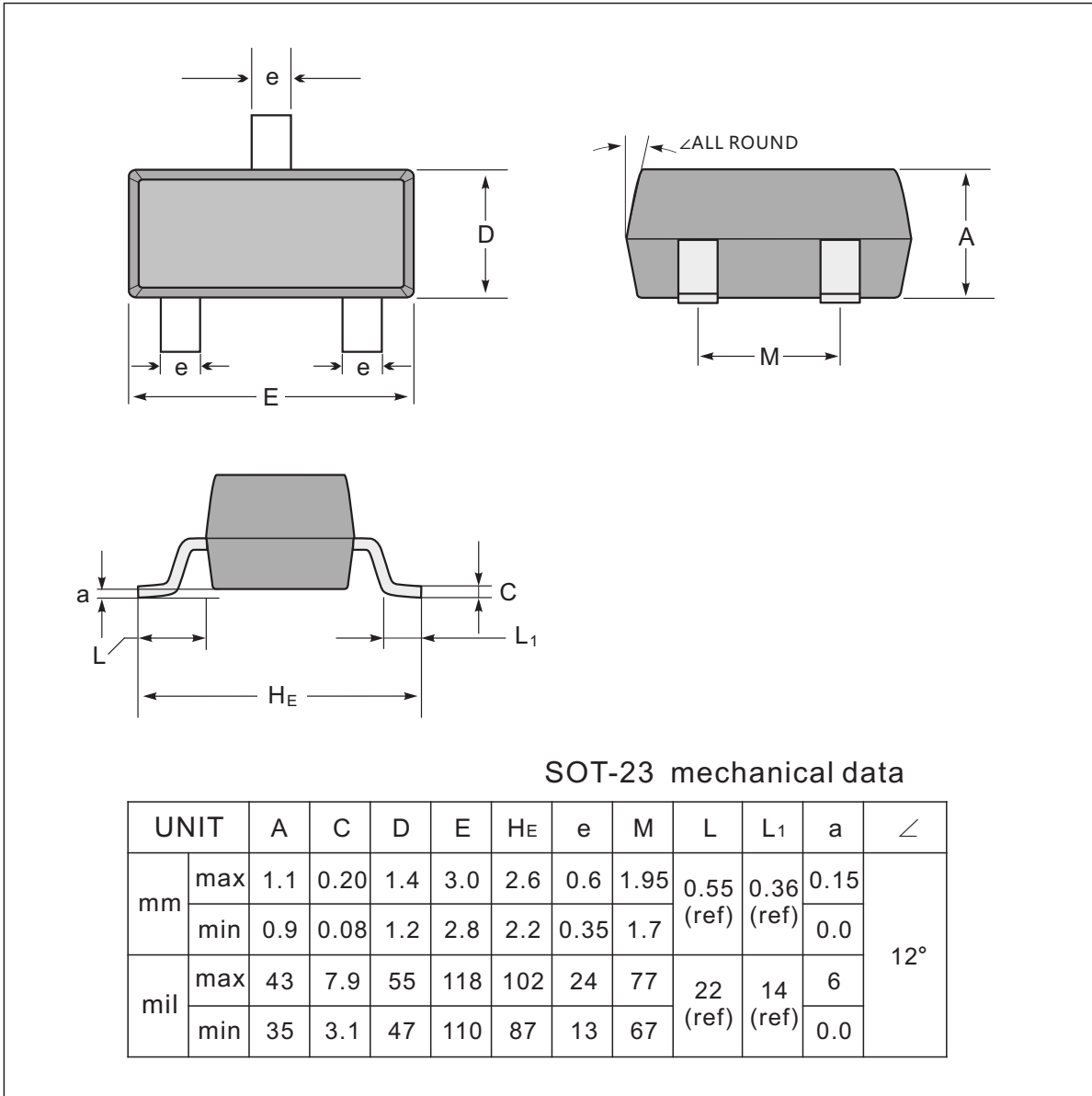
Fig.4 Capacitance Characteristics



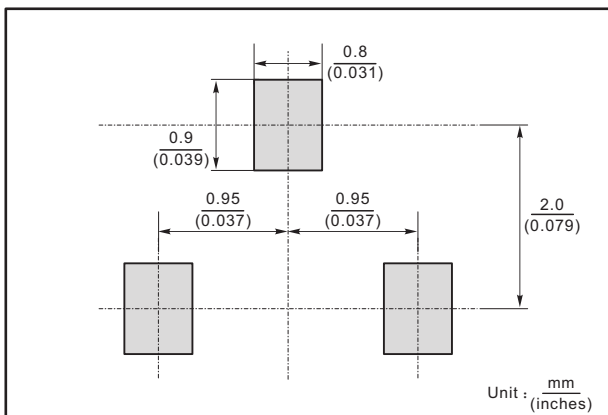


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**The recommended mounting pad size**



**Marking**

Type number	Marking code
BAV23A	KT7
BAV23C	KT6
BAV23S	KL31

