SEMICONDUCTOR

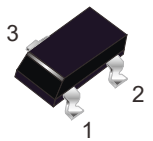
BAV23/A/C/S

SMALL SIGNAL SWITCHING DIODE

FEATURES

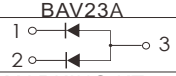
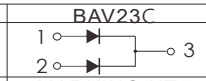
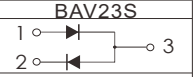
- Fast switching device(TRR < 50nS)
- Power Dissipation of 350mW
- High Stability and High Reliability
- Low reverse leakage

SOT-23



MECHANICAL DATA

- Case:SOT-23(TO-236)
- Terminals:Plated solderable per MIL-STD-750,method 2026
- Mounting Position: Any

BAV23A	BAV23C	BAV23S
		
MARKING:KT7	MARKING:KT6	MARKING:KL31

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

Parameter	Symbols	Value	Units
Reverse Voltage	V_R	250	V
Average Rectified Output Current	I_O	225	mA
Non-Repetitive Peak Forward Surge Current(@tp=8. 3ms)	I_{FSM}	1. 7	A
Power Dissipation at T_A=25°C	P_D	350	mW
Junction temperature	T_J	150	°C
Storage temperature range	T_{STG}	-55 to +150	°C
Typical thermal resistance	$R_{\theta JA}$	357	°C/W

ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

Parameter		Symbol	Min.	Max.	Units
Forward voltage at	I_F=100mA	V_F	—	1.00	V
	I_F=200mA		—	1. 25	
Reverse Voltage at	I_R=100μA	V_{BR}	250	—	V
Leakage current at	V_R=250V	I_R	—	0.1	μA
Junction capacitance at V_R=0V f=1MHz		C_J	—	5	pF
Reverse recovery time I_F=I_R=30mA,RL=100Ω, IRR=0.1×I_R		t_{rr}	—	50	ns

Typical Characteristics

FIG.1-Forward Characteristics

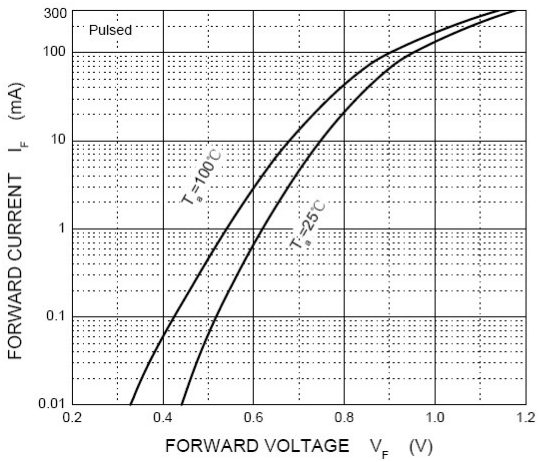


FIG.2-Reverse Characteristics

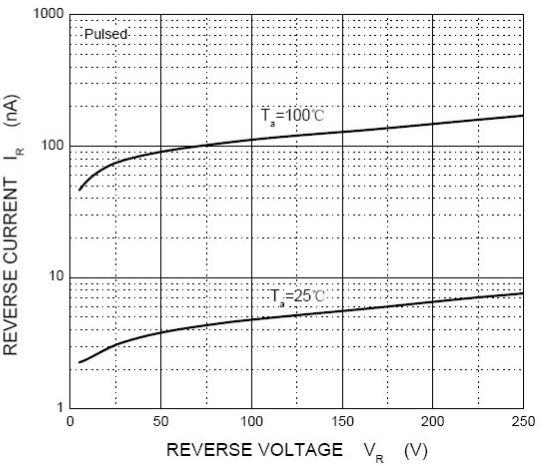


FIG.3-Capacitance Characteristics

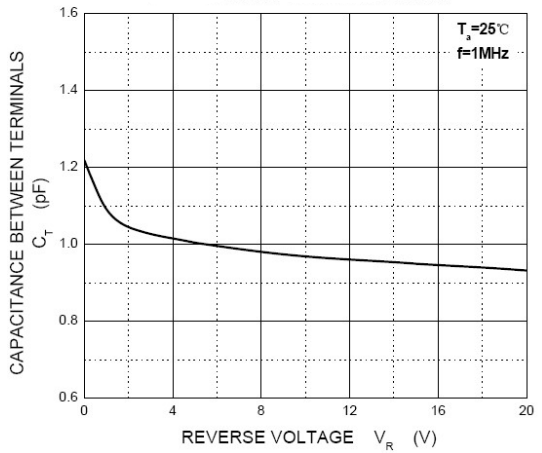
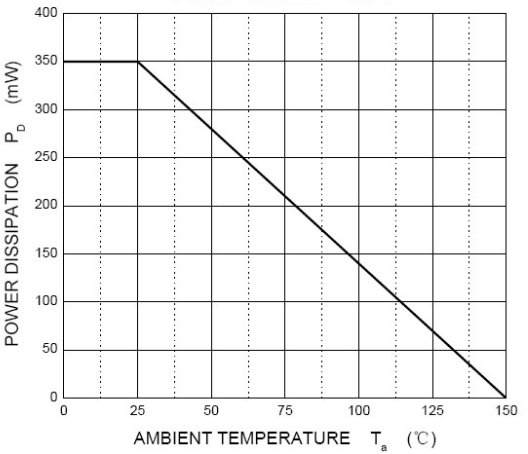
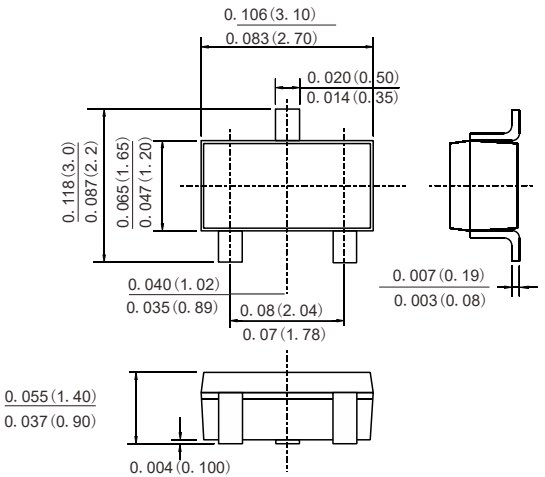


FIG.4-Power Derating Curve



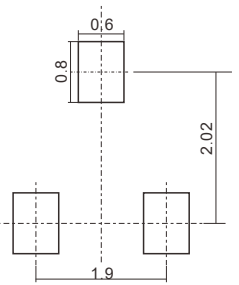
Outline Dimensions

SOT-23



Dimensions in inches and (millimetrers)

Suggested pad layout



Dimensions in millimetrers

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