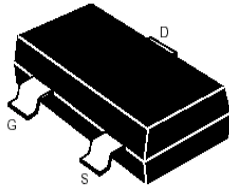


SOT-23

Features

- Fast Switching Device (TRR <math>< 50\text{nS}</math>)
- Power Dissipation of 350mW
- High Stability and High Reliability
- Low reverse leakage

Mechanical Data

- SOT-23 Small Outline Plastic Package
- Mounting Position: Any

MARKING:

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

Maximum Ratings & Thermal Characteristics

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

Parameters	Symbol	Value	Unit
Reverse Voltage	V_R	250	V
Peak Repetitive Reverse Voltage	V_{RRM}	175	V
Power Dissipation	P_d	350	mW
Average Rectified Output Current	I_o	225	mA
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$; $T_A=25^\circ\text{C}$	I_{FSM}	1.7	A
Operating junction temperature	T_j	150	°C
Storage temperature range	T_s	-55-+150	°C
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	357	°C/W

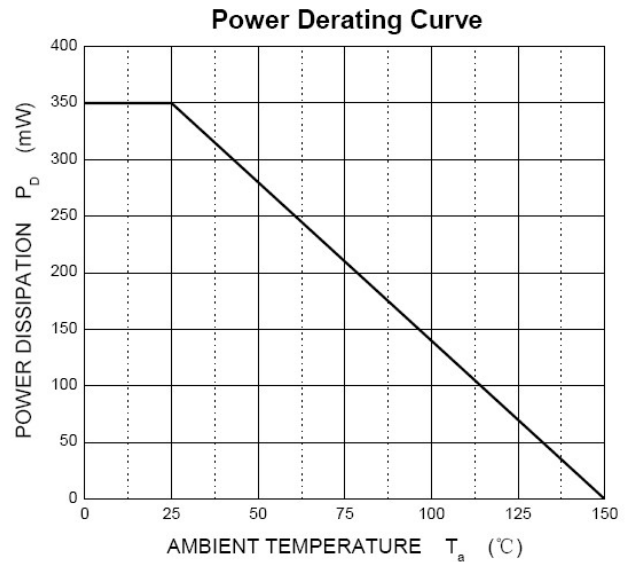
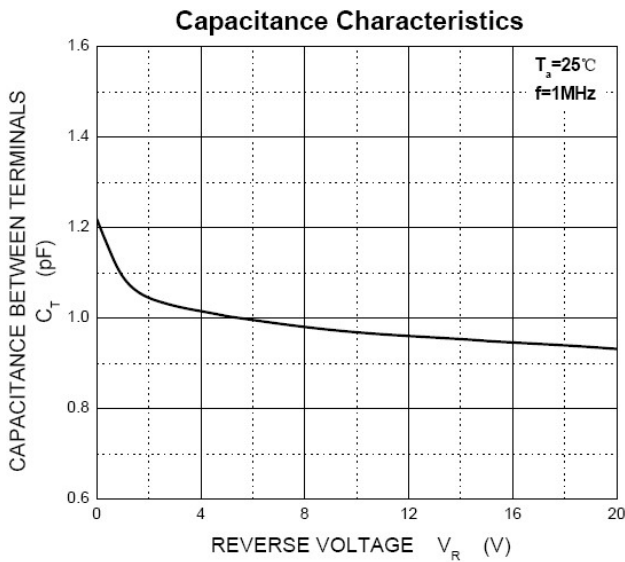
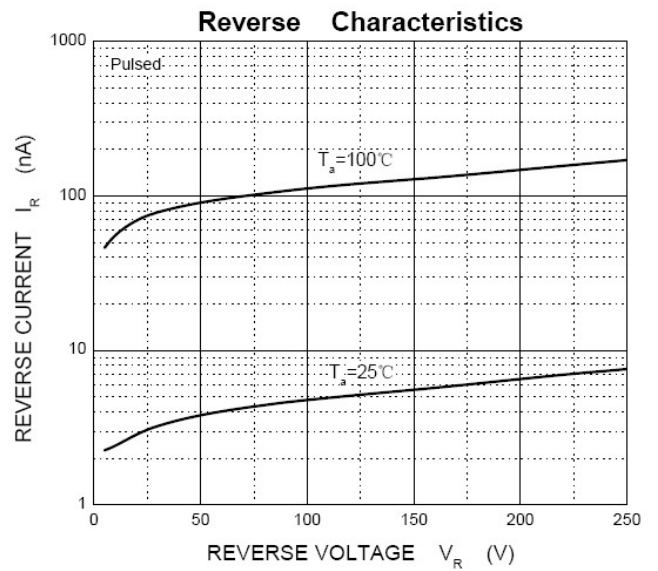
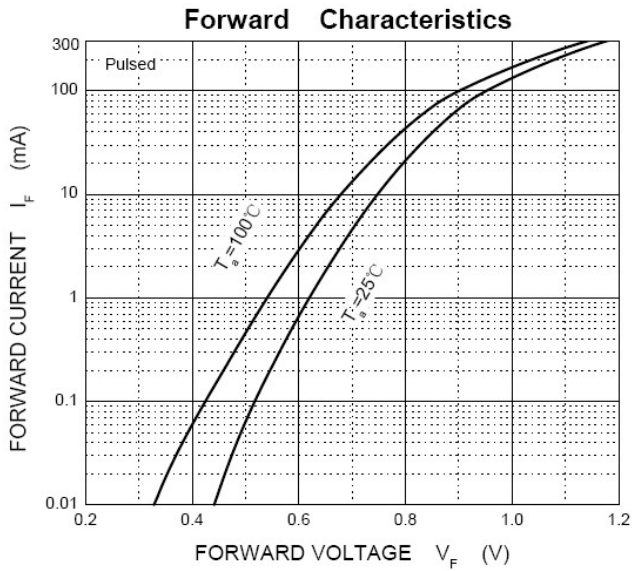
Valid provided that electrodes are kept at ambient temperature.

Electrical Characteristics

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

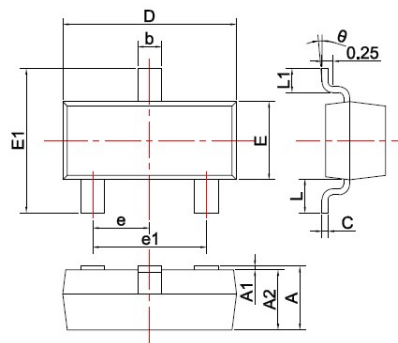
Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
V(BR)	Reverse Voltage	$I_R=100\mu\text{A}$	250		V
I_R	Reverse Leakage Current	$V_R=200\text{V}$	---	0.1	μA
V_F	Forward Voltage	$I_F=100\text{mA}$	---	1.00	V
		$I_F=200\text{mA}$	---	1.25	
TRR	Reverse Recovery Time	$I_F= I_R=30\text{mA}$	---	50	nS
		$R_L=100\Omega$			
		$I_{RR}=0.1 \times I_R$			
CT	Capacitance	$V_R=0\text{V}$, $f=1\text{MHZ}$	---	5	pF

Typical Characteristics



SOT-23 PACKAGE OUTLINE

Plastic surface mounted package



SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°

Unit: mm

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