



THE DATASHEET OF BAV99

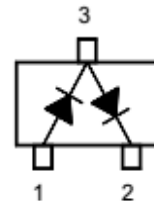
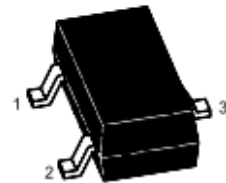


Switching Diode

Features

- For surface mount applications
- Fast reverse recovery time
- Ideal for automated placement

SOT-23

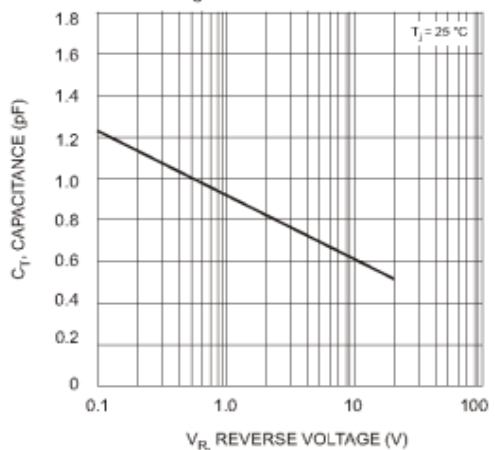
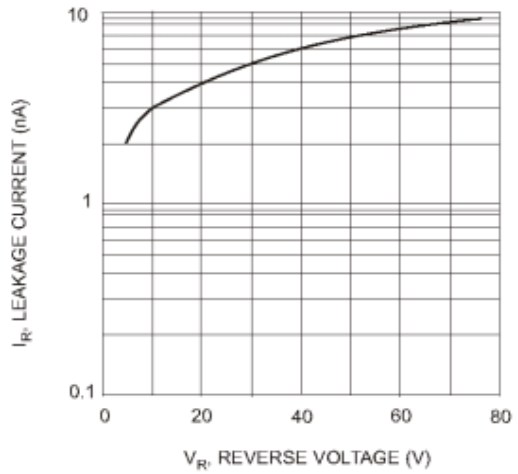
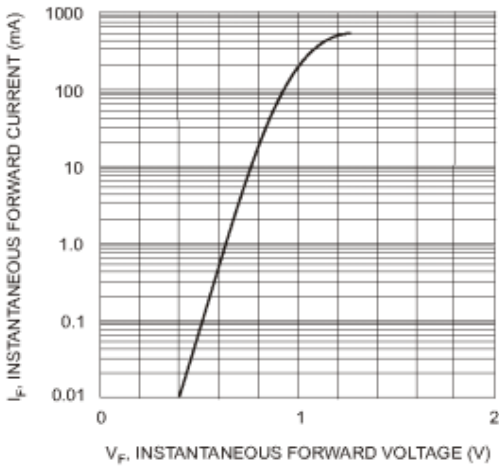


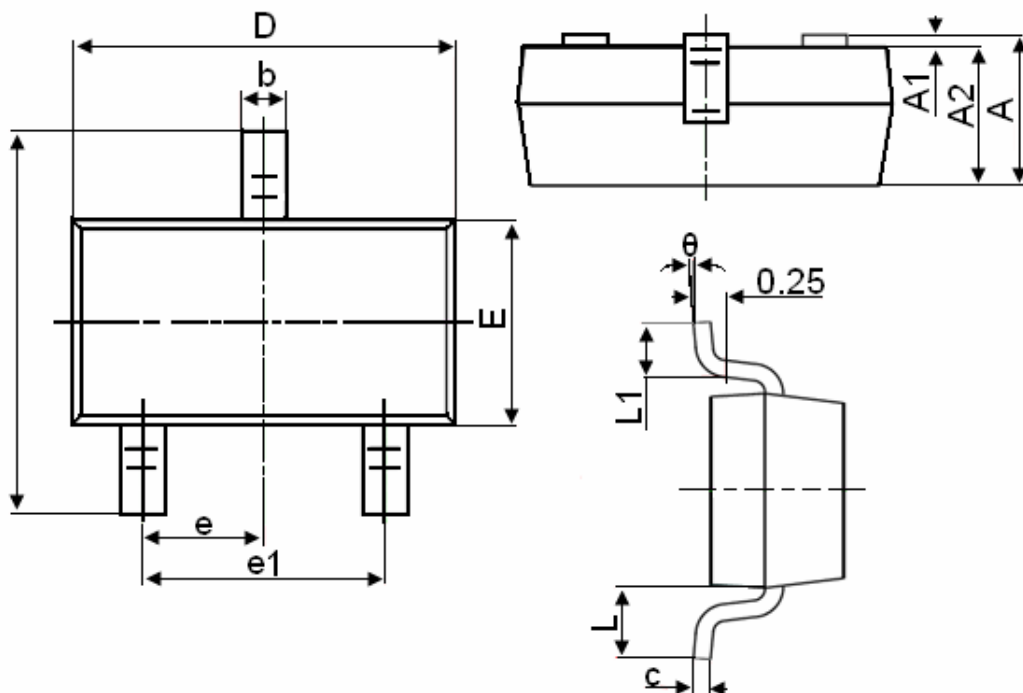
Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	85	V
Continuous reverse voltage	V_R	75	V
Continuous forward current (double diode load)	I_F	125	mA
Continuous forward current (single diode load)	I_F	215	mA
Repetitive Peak Forward Current	I_{FRM}	450	mA
Peak Forward Surge Current at	I_{FSM}	$t=1s$ 0.5	A
$t=1ms$		1	
$t=\mu s$		4.5	
Repetitive Peak Forward Current	I_{FRM}		V
Forward Voltage at $I_F=1\text{ mA}$	V_F	0.715	V
$I_F=10\text{ mA}$		0.855	
$I_F=50\text{ mA}$		1	
$I_F=150\text{ mA}$		1.25	
Reverse Current at $V_R=25\text{ V}$	I_R	30	nA
$V_R=75\text{ V}$		1	μA
$V_R=25\text{ V}, T_J=150^\circ\text{C}$		30	μA
$V_R=75\text{ V}, T_J=150^\circ\text{C}$		50	μA
Typical Junction Capacitance $V_R=4\text{V}, f=1\text{MHz}$	C_J	1.5	pF
Power Dissipation	P_D	350	mW
Maximum Reverse Recovery Time	T_{rr}	4	nS
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150	$^\circ\text{C}$

Electrical Characteristics Curves



SOT-23 Package Information


Symbol	Dimensions in Millimeters	
	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°

Looking for pricing, stock, or lifecycle information?

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