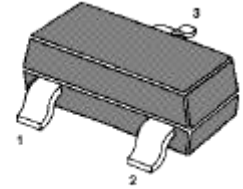


## Switching Diodes

### FEATURES

- ◆ For surface mount application
- ◆ Fast reverse recovery time
- ◆ Ideal for automated placements
- ◆ Lead free in comply with EU RoHS2011/65/EU directives

SOT-23



Marking:A7

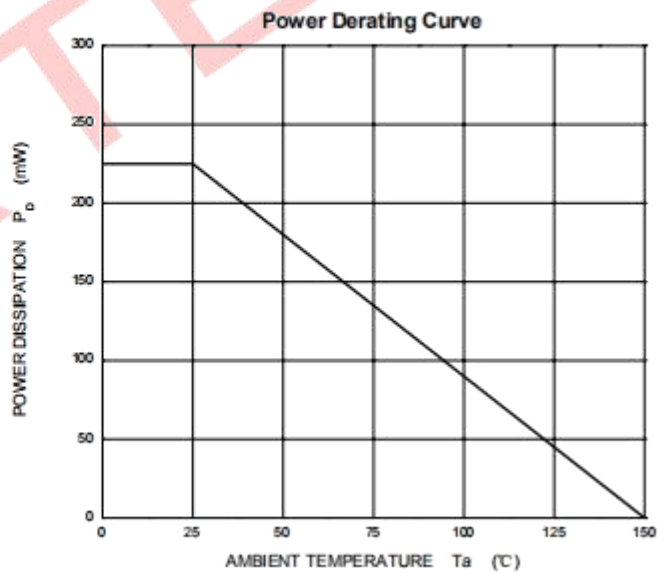
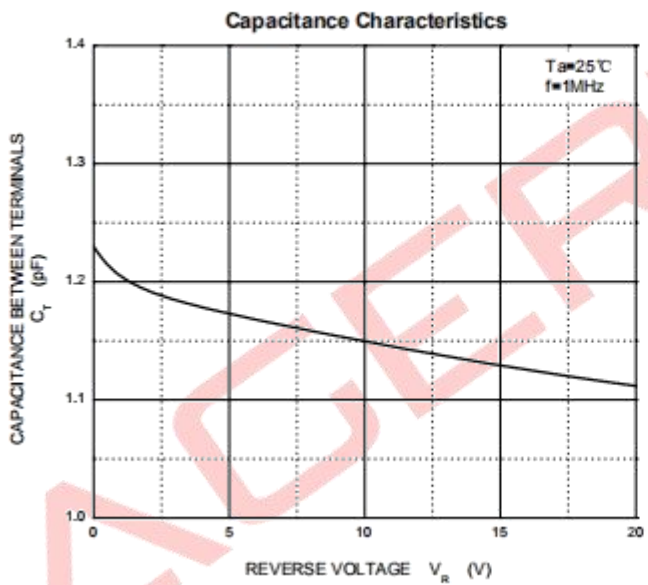
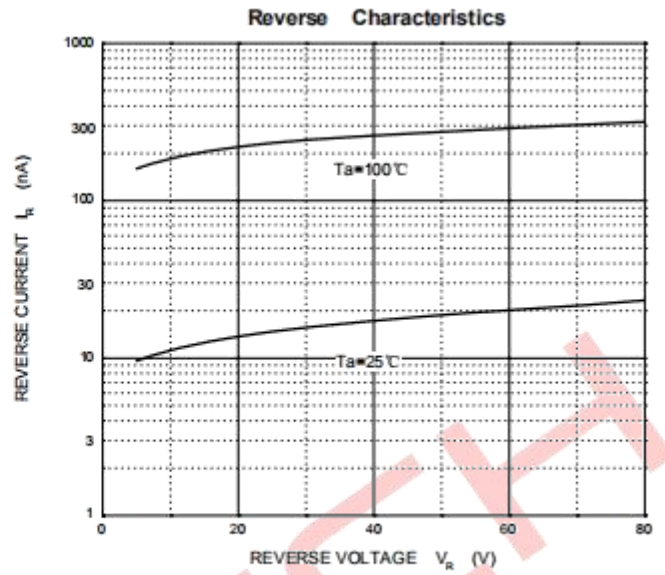
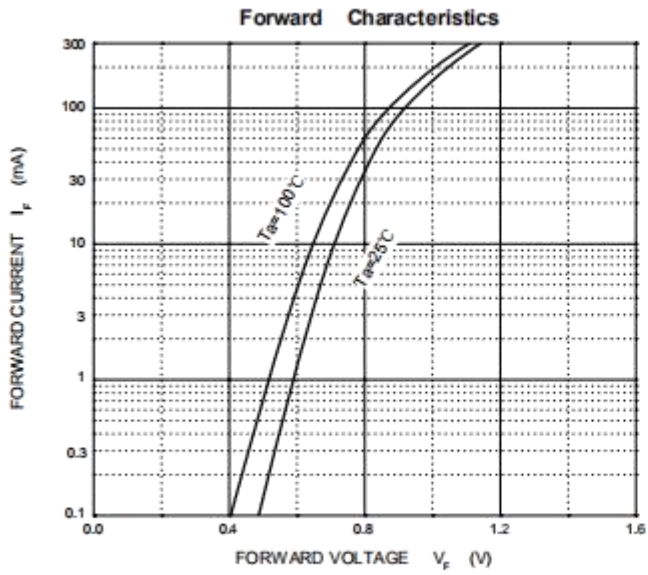
### Absolute Maximum Ratings at 25 °C

Parameter	Symbol	Limits	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	85	V
Reverse Voltage	V <sub>R</sub>	75	V
Forward Current(double diode load)	I <sub>F</sub>	200	mA
Non-repetitive Peak Forward surge current at t=1s at t=1ms at t=1us	I <sub>FSM</sub>	0.5 1 4.5	A
Power Dissipation	P <sub>D</sub>	350	mW
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	150,-65 ~ +150	°C

### Characteristics at Ta = 25 °C

Parameter	Symbol	Limits	Units
Maximum Forward Voltage at I <sub>F</sub> =1mA at I <sub>F</sub> =10mA at I <sub>F</sub> =50mA at I <sub>F</sub> =150mA	V <sub>F</sub>	0.715 0.855 1 1.25	V
Peak Reverse Current at V <sub>R</sub> =25V at V <sub>R</sub> =75V at V <sub>R</sub> =25V,T <sub>j</sub> =150 °C at V <sub>R</sub> =75V,T <sub>j</sub> =150 °C	I <sub>R</sub>	30 1 30 50	uA
Typical Junction Capacitance f=1MHz,V <sub>R</sub> =4V	C <sub>j</sub>	1.5	pF
Maximum Reverse Recovery Time	t <sub>rr</sub>	4	ns

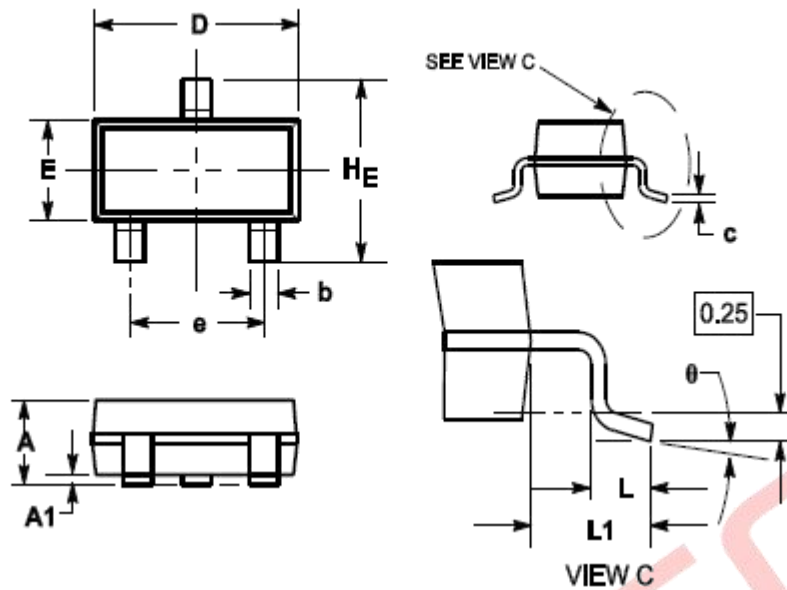
## RATINGS AND CHARACTERISTIC CURVES



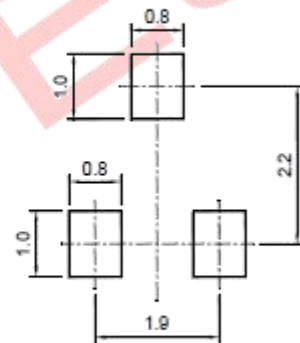
# BAV99

## PACKAGE OUTLINE

SOT-23



Symbol	Dimensions in millimeter		
	Min.	Typ.	Max.
A	0.900	1.025	1.150
A1	0.000	0.050	0.100
b	0.300	0.400	0.500
c	0.080	0.115	0.150
D	2.800	2.900	3.000
E	1.200	1.300	1.400
HE	2.250	2.400	2.550
e	1.800	1.900	2.000
L1	0.550REF		
L	0.300		0.500
θ	0°		8°



SOT-23 (TO-236)

Recommended soldering pad

### Ordering Information

Device	Package	Shipping
BAV99	SOT-23	3000/Reel&Tape(7 inch)

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