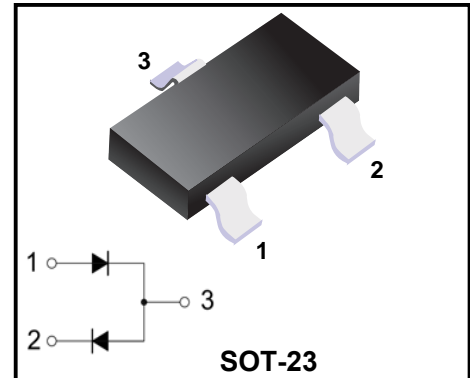


■ Switching Diodes

Features

- Fast Switching Speed
- For General Purpose Switching Applications.
- High Conductance



Marking Code	
BAV99	A7

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	VRRM	100	V
Continuous Reverse Voltage	VR	75	
Forward Current (Double Diode Loaded)	IF	125	mA
Forward Current (Single Diode Loaded)		215	
Repetitive Peak Forward Current	IFRM	450	
Non-repetitive Peak Forward Surge Current	IFSM	t=1s 0.5	A
		t=1ms 1	
		t=1us 1.5	
Power Dissipation	Pd	350	mW
Junction Temperature	TJ	150	°C
Storage Temperature range	Tstg	-65 to 150	

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	VR	IR= 100 uA	100			V
Forward voltage	VF	IF= 1 mA			0.715	
		IF= 10 mA			0.855	
		IF= 50 mA			1	
		IF= 150 mA			1.25	
Reverse voltage leakage current	IR	VR= 25 V			30	nA
		VR= 75 V			1	uA
		VR= 25 V , TJ=150°C			30	
		VR= 75 V , TJ=150°C			50	
Junction capacitance	Cj	VR= 0 V, f= 1 MHz			1.5	pF
Reverse recovery time	trr	IF=IR=10mA, IR=1mA, RL=100Ω			4	ns

Typical Characteristic

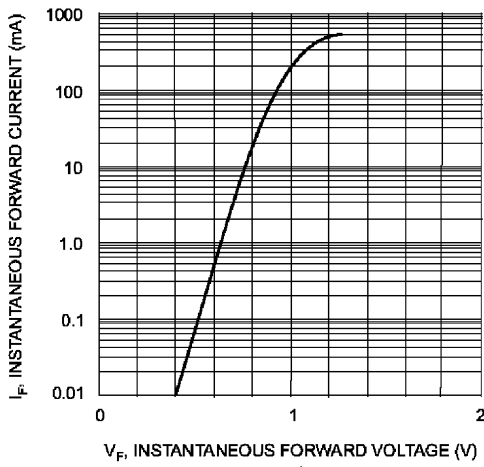


Fig. 1 Forward Characteristics

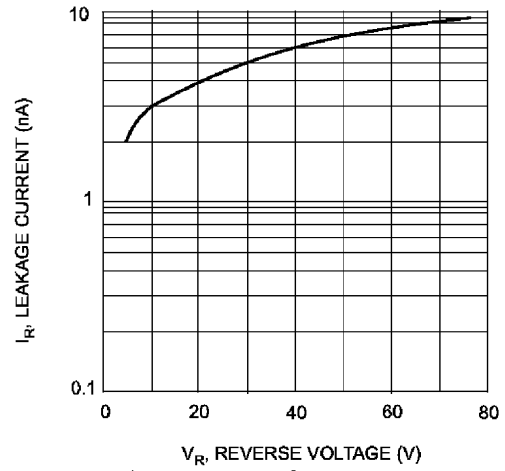


Fig. 2 Typical Leakage Current vs Reverse Voltage

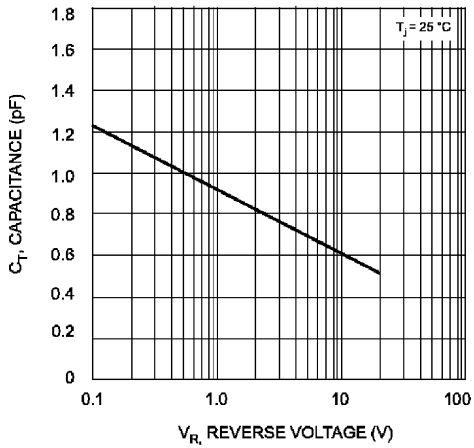


Fig. 3 Typical Total Capacitance vs Reverse Voltage

Ordering information

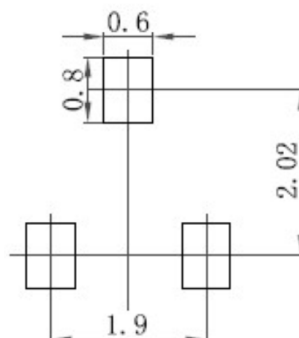
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118
E	1.2	1.4	47	55
E	1.9		75	
E1	0.95		37	
HE	2.1	2.55	83	100
Lp	0.15	0.45	5.9	18
Q	0.45	0.55	18	22
v	0.2		7.9	
W	0.1		4	

The recommended mounting pad size



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