















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	EVBAV99-S1
Overseas Part Number	BAV99
▶ Equivalent Part Number	BAV99

"S1" means SOT-23



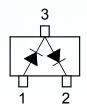


Switching Diodes

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



■ Simplified outline(SOT-23)



■ Marking

Manking	۸.7
Marking	A/

■ Absolute Maximum Ratings Ta = 25°C

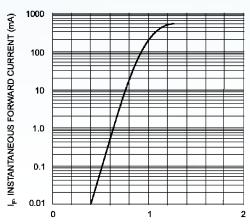
Parameter	Symbol	Rating	Unit		
Repetitive Peak Reverse Voltage	VRRM	100	V		
Continuous Reverse Voltage	VR	75	V		
Forward Current (Double Diode Loaded)	IF.	125			
Forward Current (Single Diode Loaded)	IF .	215	mA		
Repetitive Peak Forward Current	IFRM	450			
	t=1s		0.5		
Non-repetitive Peak Forward Surge Current	t=1ms	IFSM	1	Α	
	t=1us		1.5	<u> </u>	
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	Тур	Max	Unit
Reverse breakdown voltage	VR	IR= 100 uA	100			
	VF	IF= 1 mA			0.715	
Forward voltage		IF= 10 mA			0.855	٧
Forward voitage		IF= 50 mA			1	
		IF= 150 mA			1.25	
	lr	V _R = 25 V			30	nA
Reverse voltage leakage current		V _R = 75 V			1	
		VR= 25 V , TJ=150℃			30	uA
		VR= 75 V , TJ=150℃			50	
Junction capacitance	Cj	V _R = 0 V, f= 1 MHz			1.5	pF
Reverse recovery time	trr	IF=IR=10mA,IR=1mA, RL=100 Ω			4	ns



■ Typical Characterisitics



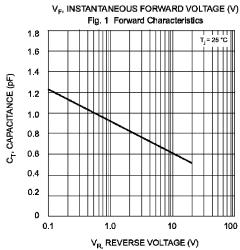
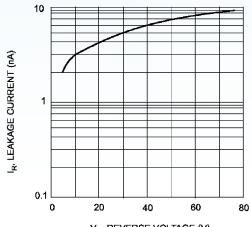


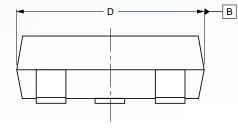
Fig. 3 Typical Total Capacitance vs Reverse Voltage

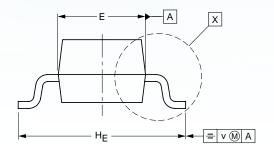


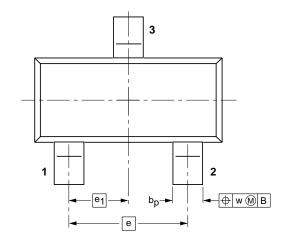
 V_R , REVERSE VOLTAGE (V) Fig. 2 Typical Leakage Current vs Reverse Voltage

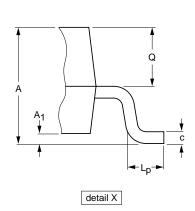


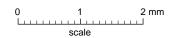
■ SOT-23











DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max.	bp	С	D	E	e	e ₁	H _E	Lp	ď	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1



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