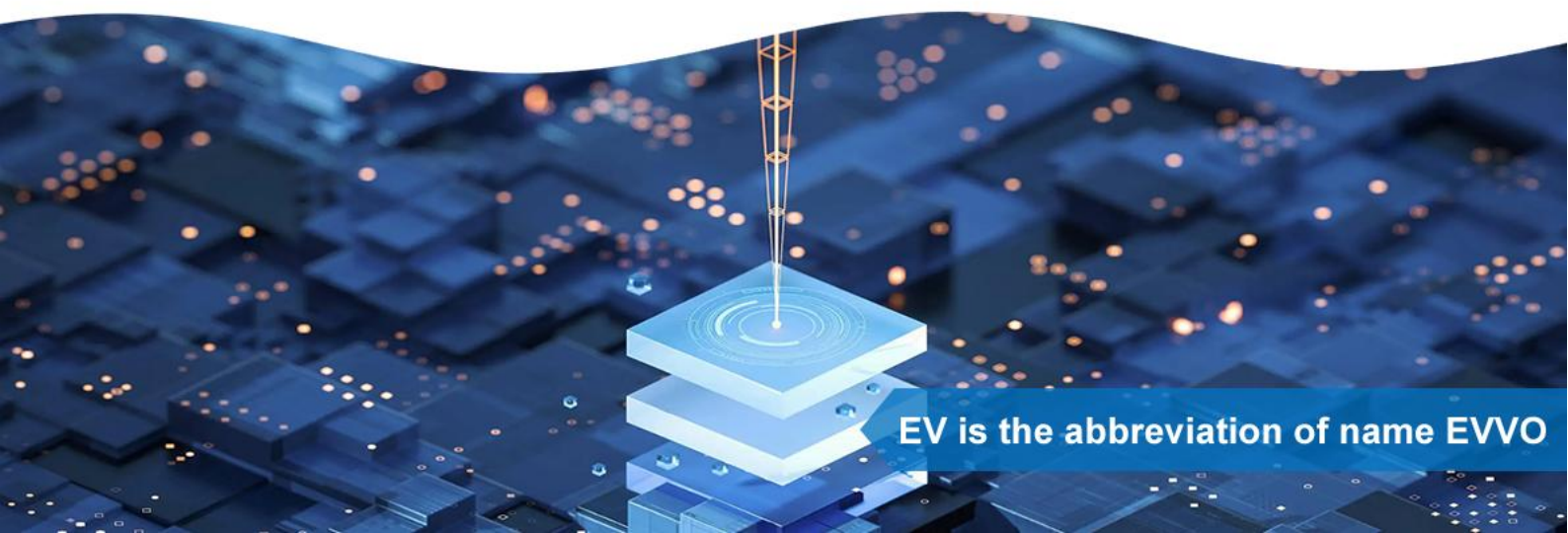
EVVOSEMI®
THINK CHANGE DO

ESD TVS MOS LDO Diode Sensor DC-DC

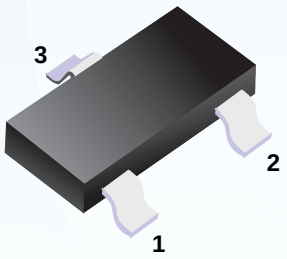
Product Specification

Domestic Part Number	EVBAS70-S1, EVBAS70-XX-S1
Overseas Part Number	BAS70, BAS70-XX
Equivalent Part Number	BAS70, BAS70-XX

"S1" means SOT-23



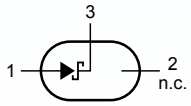
Schottky Diodes



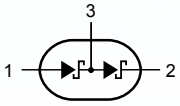
■ Simplified outline(SOT-23)

■ Features

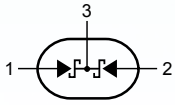
- Fast Switching Speed
- High breakdown voltage



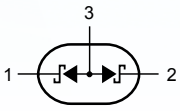
EVBAS70-S1 single diode.



EVBAS70-04-S1



EVBAS70-05-S1



EVBAS70-06-S1

■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_{RM}	70	V
Peak Reverse Voltage	V_{RRM}	70	
Average Rectified Current at Temp=25℃	I_{FAV}	70	mA
Non-Repetitive Peak Forward Surge Current t=1s	I_{FSM}	100	
Power Dissipation	P_d	215	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	℃/W
Junction Temperature	T_J	150	℃
Storage Temperature range	T_{stg}	-55 to 150	

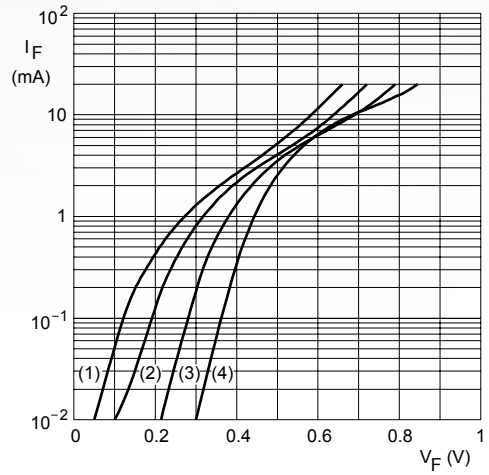
■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	I_R= 10 uA	70			V
Forward voltage	V_{F1}	I_F= 1 mA			0.41	
	V_{F2}	I_F= 10 mA			0.75	
	V_{F3}	I_F= 15 mA			1	
Reverse voltage leakage current	I_{R1}	V_R= 70 V			1	uA
	I_{R2}	V_R= 50 V			0.1	
Junction capacitance	C_j	V_R= 0 V, f= 1 MHz			2	pF

■ Marking

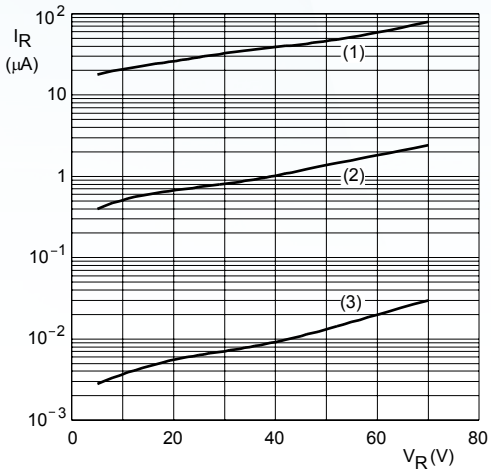
NO.	EVBAS70-S1	EVBAS70-04-S1	EVBAS70-05-S1	EVBAS70-06-S1
Marking	73	74	75	76

■ Typical Characterisitics



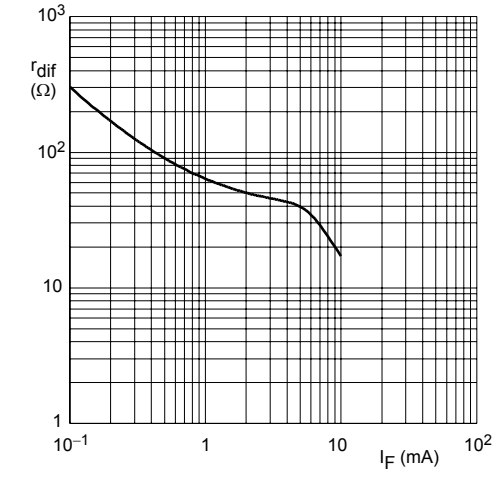
(1) T_{amb} = 125 °C.
(2) T_{amb} = 85 °C.
(3) T_{amb} = 25 °C.
(4) T_{amb} = −40 °C.

Fig.1 Forward current as a function of forward voltage; typical values.



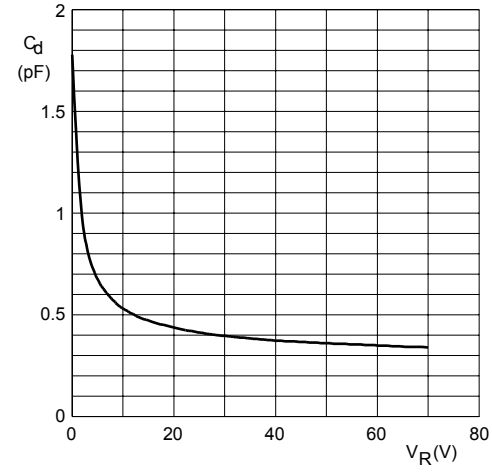
(1) T_{amb} = 150 °C.
(2) T_{amb} = 85 °C.
(3) T_{amb} = 25 °C.

Fig.2 Reverse current as a function of reverse voltage; typical values.



f = 10 kHz.

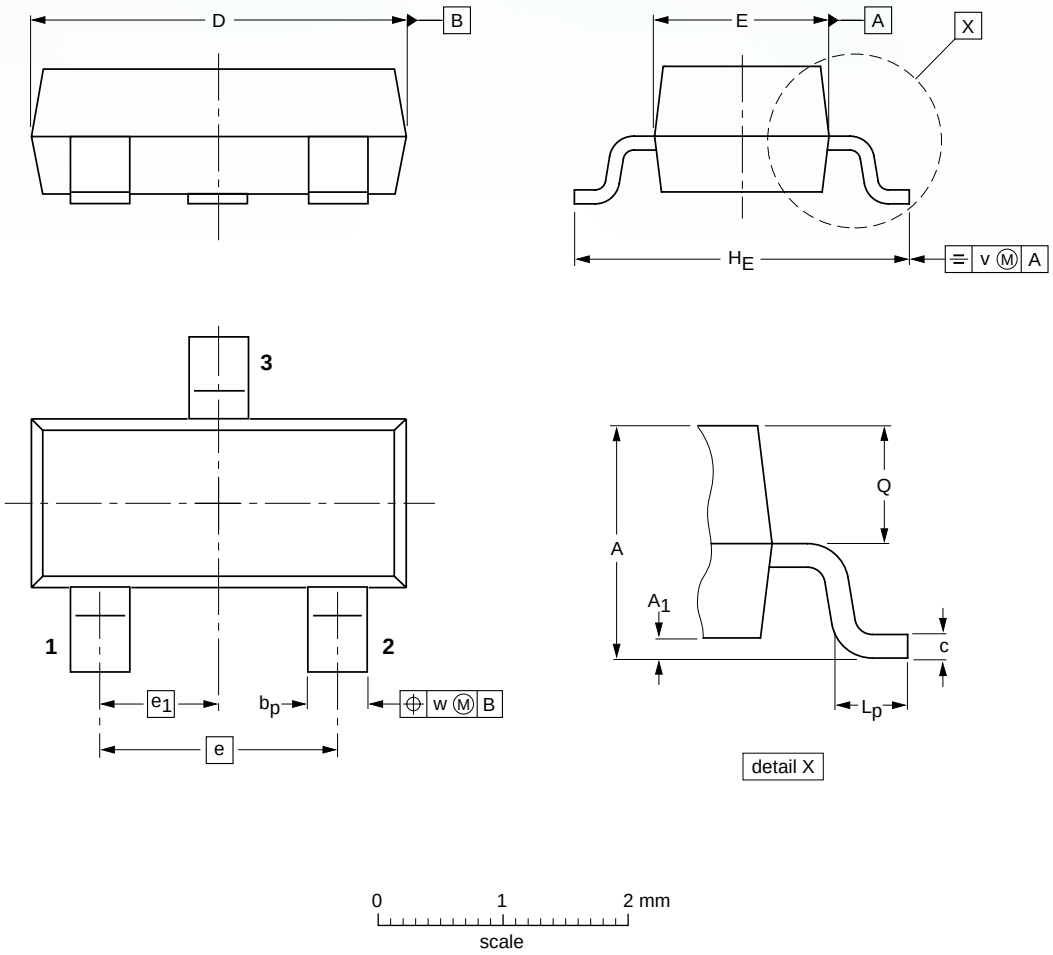
Fig.3 Differential forward resistance as a function of forward current; typical values.



f = 1 MHz.

Fig.4 Diode capacitance as a function of reverse voltage; typical values.

■ SOT-23



DIMENSIONS (mm are the original dimensions)

UNIT	A	A_1 max.	b_p	c	D	E	e	e_1	H_E	L_p	Q	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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