

EVVOSEMI[®]

THINK CHANGE DO



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

Product Specification

▶ Domestic	Part Number	EVBAS19-S1, EVBAS20-S1
▶ Overseas	Part Number	BAS19, BAS20
▶ Equivalent	Part Number	BAS19, BAS20

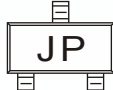

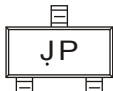

"S1" means SOT-23

EV is the abbreviation of name EVVO

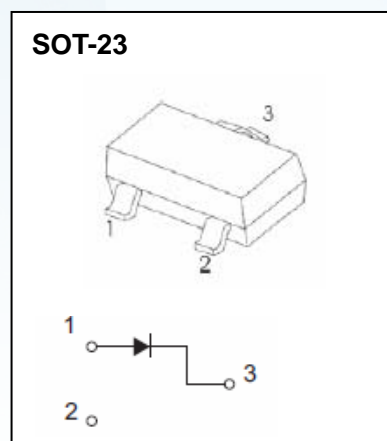
FEATURE

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

MARKING:

EVBAS19-S1:JP	EVBAS20-S1:JR
	
	

Solid dot = Green molding compound device,
if none, the normal device.

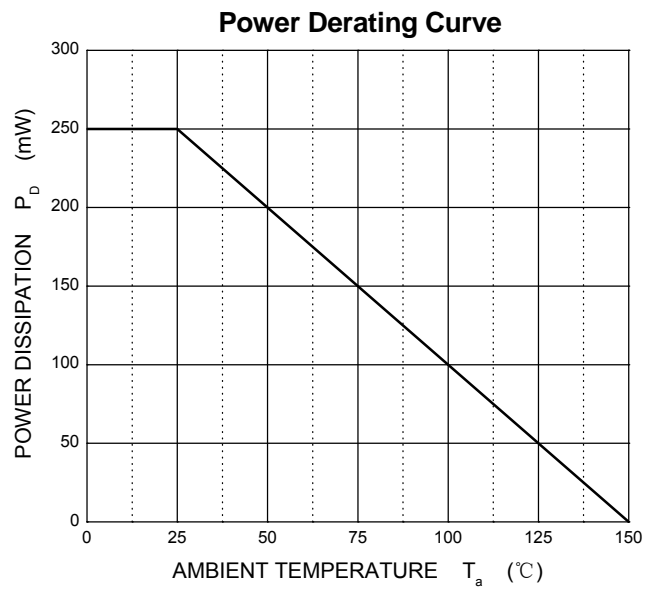
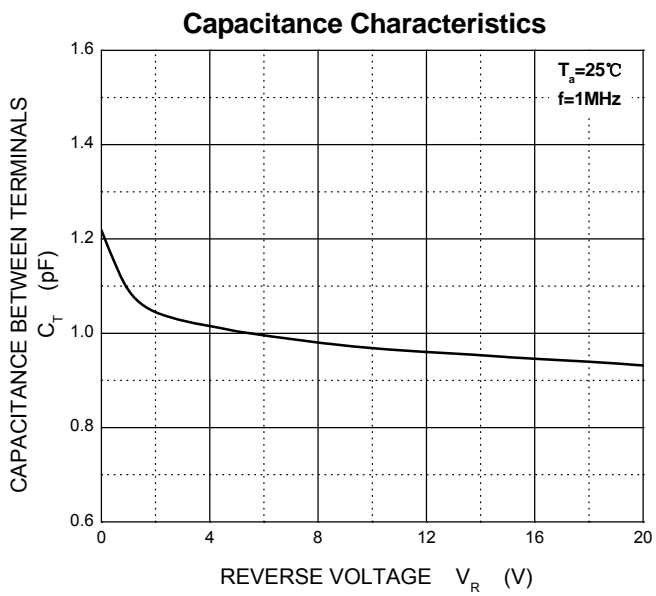
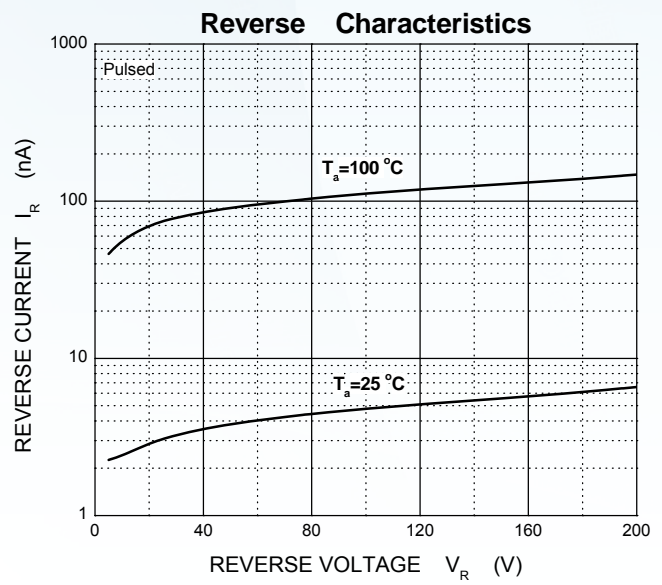
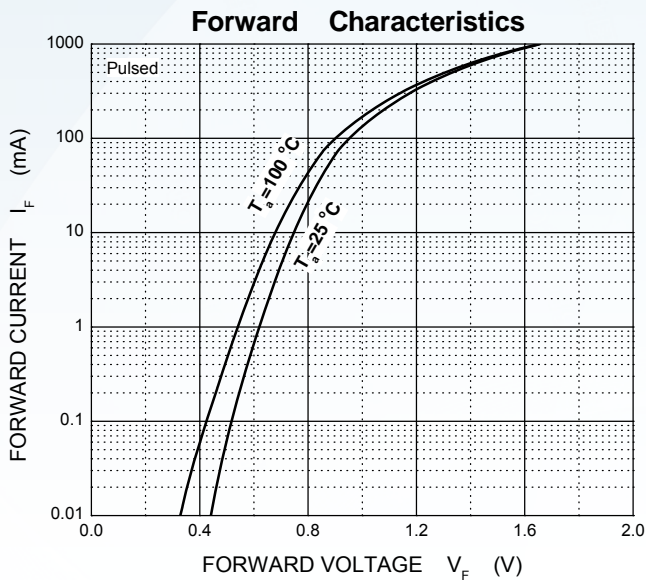


MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

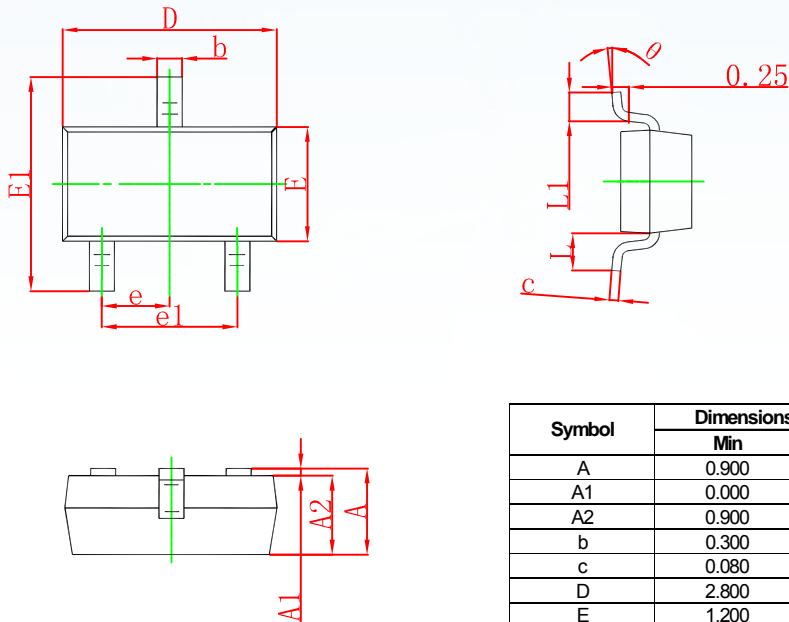
Symbol	Parameter	BAS19-EV	BAS20-EV	Unit
V _{RRM}	Repetitive Peak Reverse Voltage	120	200	V
V _{RWM}	Working Peak Reverse Voltage	100	150	V
I _O	Average Rectified Output Current	200		mA
I _{FSM}	Non-Repetitive Peak Forward Surge Current @t=8.3ms	2.5		A
P _d	Power Dissipation	250		mW
R _{θJA}	Thermal Resistance from Junction to Ambient	500		°C/W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55 ~ +150		°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse breakdown voltage	EVBAS19-S1 EVBAS20-S1 V _(BR)	I _R =100μA	120 200			V
Reverse current	EVBAS19-S1 EVBAS20-S1 I _R	V _R =100V V _R =150V			0.1	μA
Forward voltage	V _F	I _F =100mA			1	V
		I _F =200mA			1.25	V
Diodes capacitance	C _D	V _R =0V, f=1MHz			5	pF
Reveres recovery time	t _{rr}	I _F =I _R =30mA, I _{rr} =0.1*I _R			50	ns

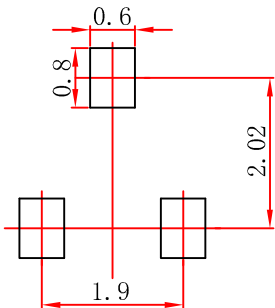


SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

SOT-23 Suggested Pad Layout



Note:
1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

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