















ESD

**TVS** 

LDO

Diode

Sensor

DC-DC

# **Product Specification**

Domestic Part Number	EVBAS21/X-S1
Overseas Part Number	BAS21/X
▶ Equivalent Part Number	BAS21/X

"S1" means SOT-23

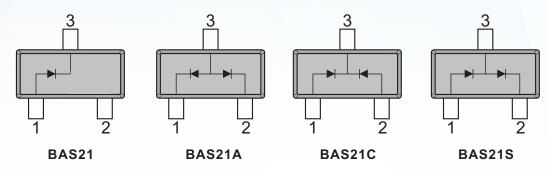




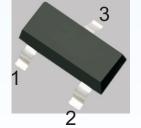
## **Switching Diodes**

#### **FEATURES**

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



**SOT-23** 



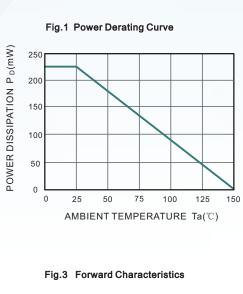
## Maximum Ratings @Ta=25℃

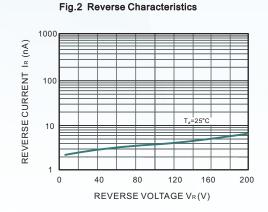
Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	Vrrm		
Working peak reverse voltage	VRWM	250	V
DC blocking voltage	VR		
Forward continuous current	lғм	400	mA
Average rectified output current	lo	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	IFSM	2.5	А
Repetitive peak forward surge current	İFRM	625	mA
Power dissipation	Pp	225	mW
Thermal resistance junction to ambient	RthJA	555	°C/W
Junction temperature	TJ	150	°C
Storage temperature range	Тѕтс	-55 ~ +150	°C

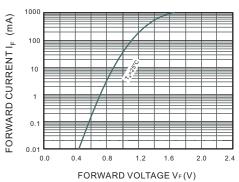
## Electrical Characteristics@Ta=25℃

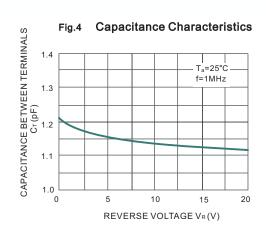
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	VBR	IR=100μA	250		V
Reverse voltage leakage current	IR	V <sub>R</sub> =200V		0.1	uA
Forward voltage	VF	IF=100mA IF=200mA		1000 1250	mV
Diode capacitance	Ср	V <sub>R</sub> =0V, f=1MHz		5	рF
Reveres recovery time	trr	IF=IR=30mA, Irr=0.1×IR,RL=100Ω		50	ns





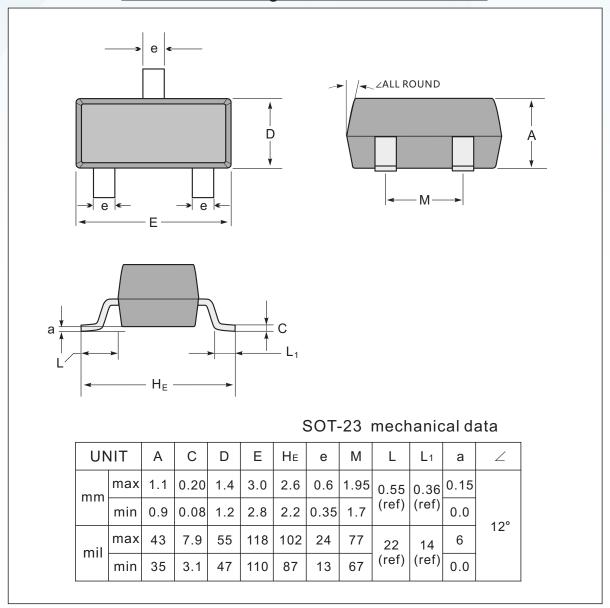




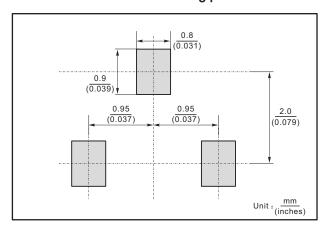




# SOT-23 Package Outline Dimensions



#### The recommended mounting pad size



#### Marking

Type number	Marking code
BAS21	JS
BAS21A	JS2
BAS21C	JS3
BAS21S	JS4



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