

BAS21 A/C/S

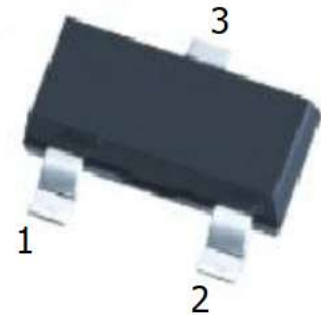
BAS21 A/C/S Fast Switching Diode

General description

SOT-23 Plastic-Encapsulate Switching Diode

FEATURES

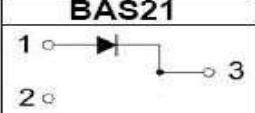
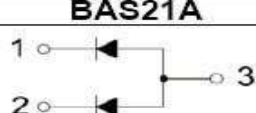
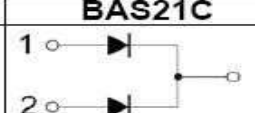

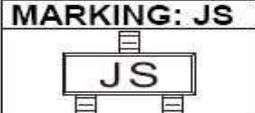
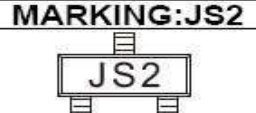


- Fast Switching Device (TRR <50 nS)
- Power Dissipation of 225mW
- High Stability and High Reliability Green EMC
- Low reverse leakage



Package SOT-23

Absolute Maximum Ratings TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _D	Power Dissipation	225	mW
T _{STG}	Storage Temperature Range	-55 to +150	°C
T _J	Operating Junction Temperature	+150	°C
V _{RSM}	Non-Repetitive Peak Reverse Voltage	250	V
V _{RRM}	Repetitive Peak Reverse Voltage	250	V
I _{FRM}	Repetitive Peak Forward Current	625	mA
I _O	Continuous Forward Current	400	mA
I _{FSM}	Peak Forward Surge Current (T=8.3ms)	2.5	A

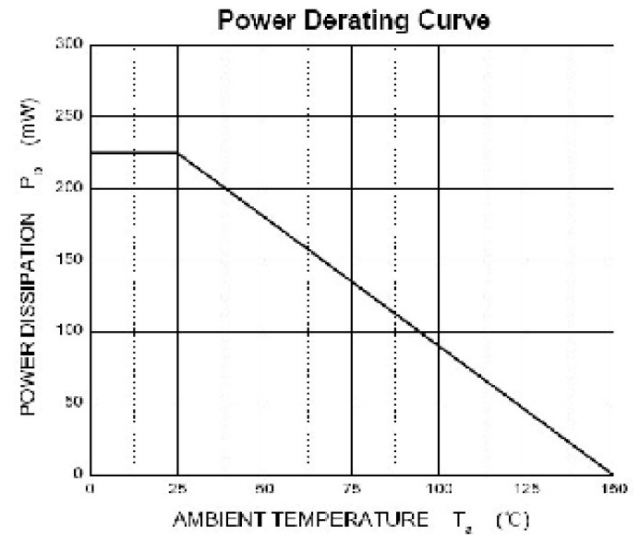
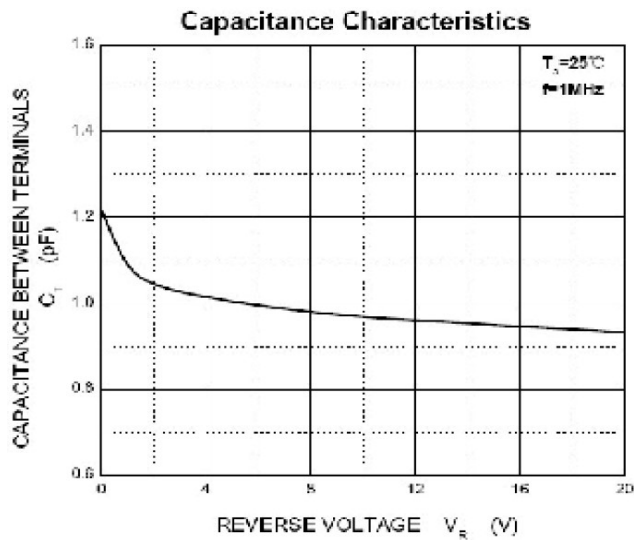
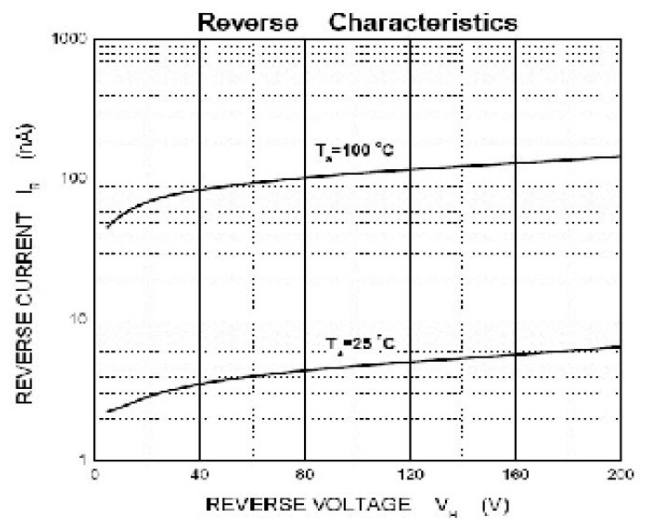
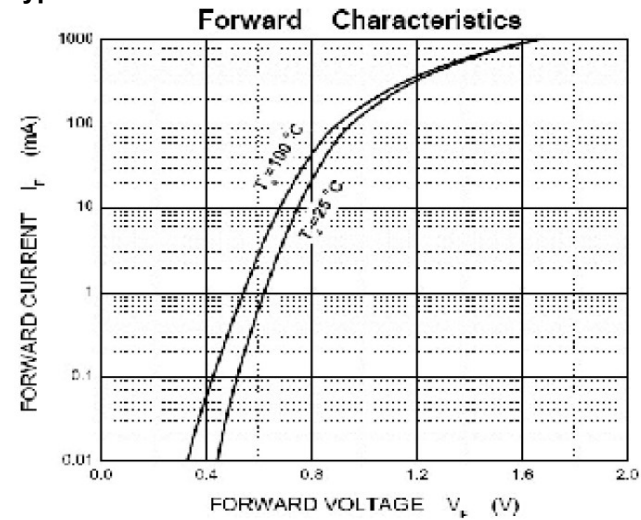
BAS21	BAS21A	BAS21C	BAS21S
			
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Electrical Characteristics

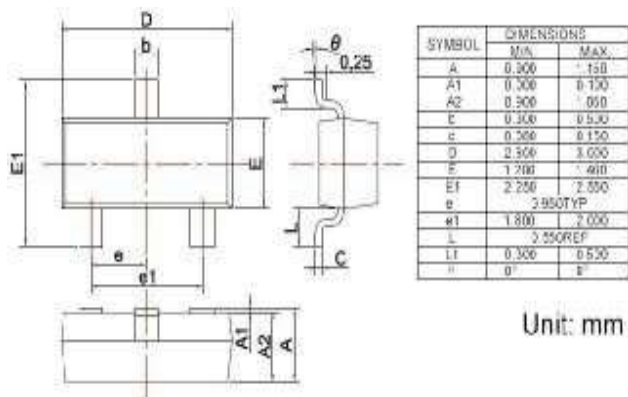
TA = 25°C unless otherwise noted

Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
V(BR)	Reverse Voltage	IR=100uA	250		V
IR	Reverse Leakage Current	VR=200	---	1	uA
VF	Forward Voltage	IF=100mA	---	1	V
		IF=200mA	---	1.25	
TRR	Reverse Recovery Time	IF= IR=30mA	---	50	nS
		RL=100Ω			
		IRR=0.1 X IR			
CT	Capacitance	VR=0V, f=1MHZ	---	5	pF

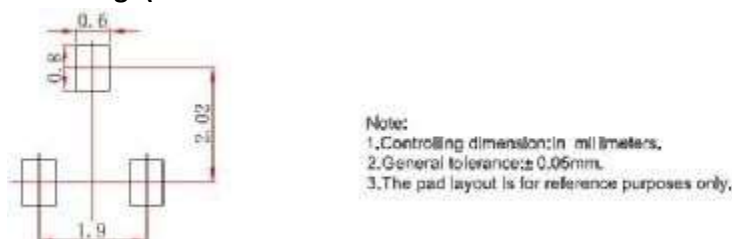
Typical Performance Characteristics



SOT-23 PACKAGE OUTLINE



PCB Design(Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs)



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