

# BAS21 A/C/S Fast Switching Diode

### General description

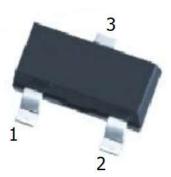
SOT-23 Plastic-Encapsulate Switching Diode

#### FEATURES

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

## Absolute Maximum Ratings TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
PD	Power Dissipation	225	mW
Тѕтс	Storage Temperature Range	-55 to +150	°C
TJ	Operating Junction Temperature	+150	°C
VRSM	Non-Repetitive Peak Reverse Voltage	250	V
VRRM	Repetitive Peak Reverse Voltage	250	V
FRM	Repetitive Peak Forward Current	625	mA
Io	Continuous Forward Current	400	mA
Ігѕм	Peak Forward Surge Current (T=8.3ms)	2.5	А



## Package SOT-23

BAS21	BAS21A	BAS21C	BAS21S
		10	1 ∘ ►
20	2∘—∣◀	20	20
MARKING: JS	MARKING: JS2	MARKING: JS3	MARKING: JS4
JS	JS2	JS3	JS4

#### . Electrical Characteristics

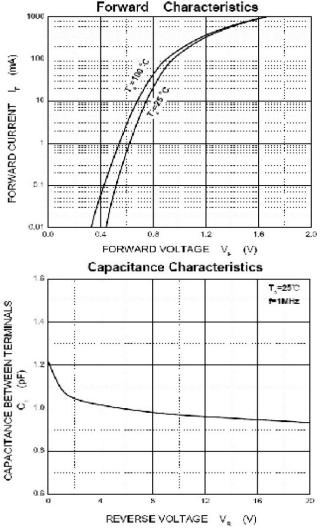
 $T_A = 25^{\circ}C$  unless otherwise noted

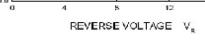
Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	Unit
V(BR)	Reverse Voltage	IR=100uA	250		V
IR	Reverse Leakage Current	VR=200		1	uA
VF	Forward Voltage	IF=100mA		1	v
		IF=200mA		1.25	
		IF= IR=30mA			
TRR	Reverse Recovery Time	RL=100Ω		50	nS
		IRR=0.1 X IR			
СТ	Capacitance	VR=0V, f=1MHZ		5	pF

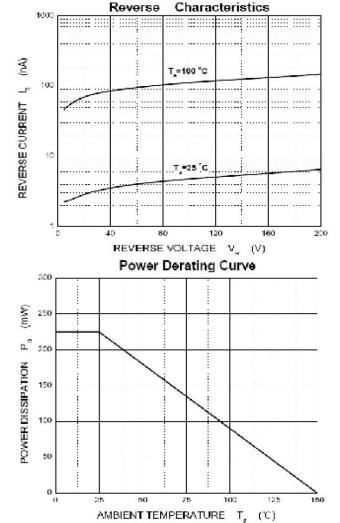




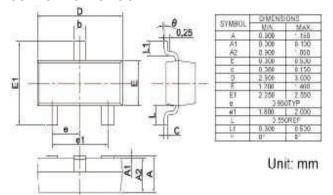
#### **Typical Performance Characteristics**



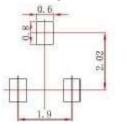




#### **SOT-23 PACKAGE OUTLINE**



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



Note: 1,Controlling dimension: in millimeters, 2.General tolerance:± 0.05mm. 3. The pad layout is for reference purposes only,

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