

## BAS16 Fast Switching Diode

## **General description**

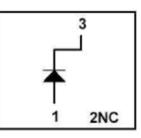
SOT-23 Plastic-Encapsulate Switching Diode

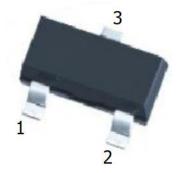
#### FEATURES

- Fast Switching Device (TRR <6.0 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	-65 to +150	°C °C V V V mA	
TJ	Operating Junction Temperature	+150		
Vrsm	Non-Repetitive Peak Reverse Voltage	100		
VRRM	Repetitive Peak Reverse Voltage	75		
IFRM	Repetitive Peak Forward Current	300		
lo	Continuous Forward Current	150	mA	
IFSM Peak Forward Surge Current (Pulse Width=1us)		2	А	





#### **DEVICE MARKING CODE:**

Device Type	Device Marking
BAS16	A6 or 5D

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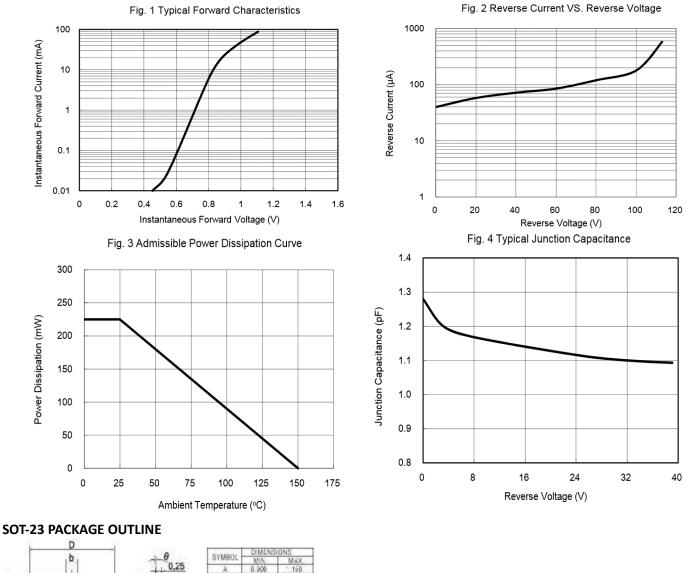
#### . Electrical Characteristics

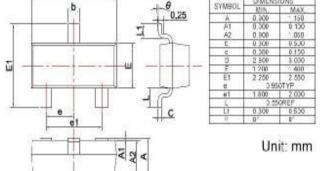
 $T_A = 25^{\circ}C$  unless otherwise noted

Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	Unit
V(BR)	Reverse Voltage	IR=100uA	75		V
IR	Reverse Leakage Current	VR=75		1	uA
VF	Forward Voltage	IF=1.0mA		0.715	V
		IF=10mA		0.855	
		IF=50mA		1.00	
		IF=150mA		1.25	
TRR	Reverse Recovery Time	IF= IR=10mA		6	nS
		RL=100Ω			
		IRR=0.1 X IR			
СТ	Capacitance	VR=0V, f=1MHZ		2	pF

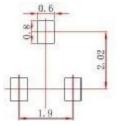


## **Typical Performance Characteristics**





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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