

BAS16 Fast Switching Diode

General description

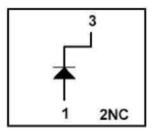
SOT-23 Plastic-Encapsulate Switching Diode

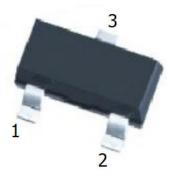
FEATURES

- Fast Switching Device (TRR <6.0 nS)
- Power Dissipation of 225mW
- · High Stability and High Reliability Green EMC
- Low reverse leakage



Symbol	Parameter	Value	Units	
P _D	Power Dissipation	225	mW	
Тѕтс	Storage Temperature Range	-65 to +150	°C	
TJ	Operating Junction Temperature	+150	°C	
VRSM	Non-Repetitive Peak Reverse Voltage	100	V	
VRRM	Repetitive Peak Reverse Voltage	75	V	
IFRM	Repetitive Peak Forward Current	300	mA	
lo	Continuous Forward Current 150		mA	
Ігѕм	Peak Forward Surge Current (Pulse Width=1us)	2	Α	





DEVICE MARKING CODE:

BAS16 A6 or 5D	Device Type	Device Marking
	BAS16	A6 or 5D

. Electrical Characteristics T_A =

T_A = 25°C unless otherwise noted

Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	Unit
V(BR)	Reverse Voltage	IR=100uA	75		V
lR	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

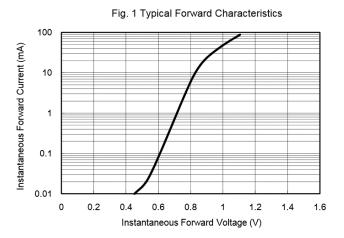


Fig. 3 Admissible Power Dissipation Curve

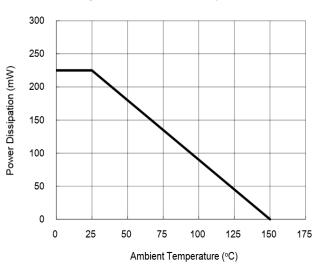
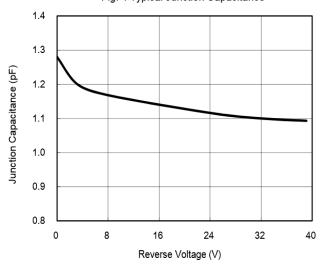
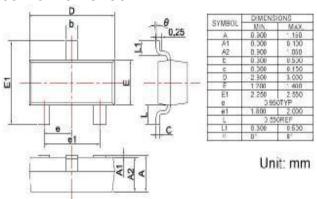


Fig. 2 Reverse Current VS. Reverse Voltage 1000 Reverse Current (µA) 100 10 0 20 120 Reverse Voltage (V)

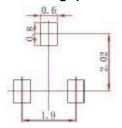
Fig. 4 Typical Junction Capacitance



SOT-23 PACKAGE OUTLINE



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



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



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