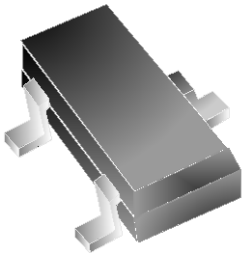
BAS21

Switching Diode

Features

- Fast Switching Speed
- RoHS Compliant / Green EMC
- Small Outline Surface Mount Package

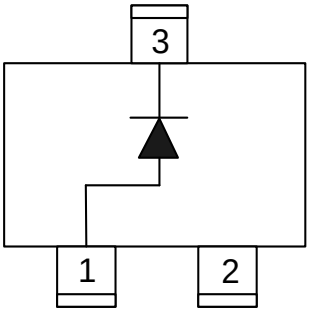


SOT-23

Mechanical Characteristics

- SOT-23 Package
- Marking : Making Code
- RoHS Compliant

Schematic & PIN Configuration



SOT-23 (Top View)

Absolute Maximum Rating

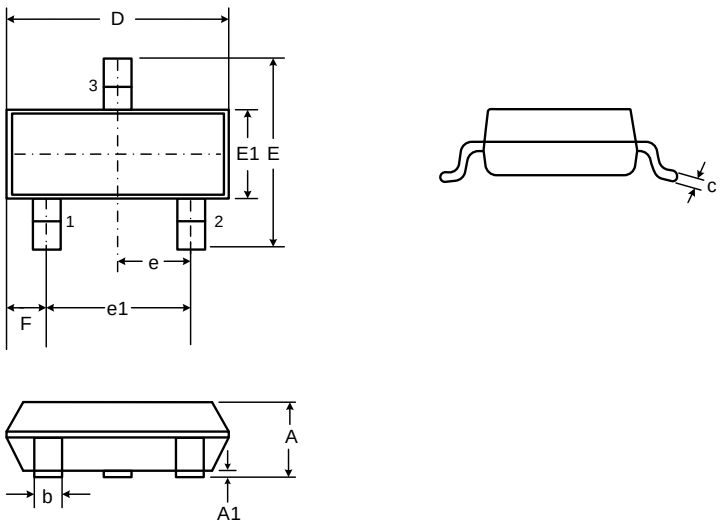
Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	250	V
Continuous Forward Current	I_F	200	mA
Peak Forward Surge Current (@t=1S)	I_{FSM}	625	mA
Power Dissipation	P_D	250	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Thermal Resistance From Junction to Ambient	$R_{\theta JA}$	500	°C/W

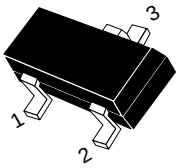
Electrical Characteristics (T_{amb}=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	I_R = 100μA	200	-	-	V
Forward Voltage	V_F	I_F = 100mA	-	-	1	V
		I_F = 200mA	-	-	1.25	
Reverse Voltage Leakage Current	I_R	V_R = 200V	-	-	100	nA
Typical Junction Capacitance	C_J	V_R =0V, f=1MHz	-	-	5	pF
Reverse Recovery Time	T_{rr}	I_F= I_R=30mA, I_R=3mA, R_L=100Ω	-	40	-	nS

Outline Drawing – SOT-23

PACKAGE OUTLINE

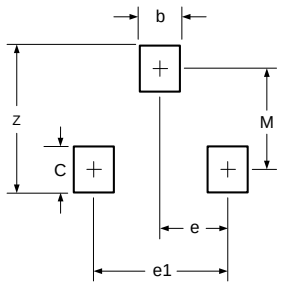




SOT-23

DIMENSIONS

SYMBOL	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.90	1.11	0.035	0.044
A1	0.01	0.10	0.000	0.004
b	0.37	0.51	0.015	0.020
c	0.09	0.18	0.004	0.007
D	2.80	3.04	0.110	0.120
E	2.10	2.64	0.083	0.104
E1	1.20	1.40	0.047	0.055
e	0.89	1.03	0.035	0.041
e1	1.78	2.05	0.070	0.081
F	0.45	0.60	0.018	0.024



DIMENSIONS		
DIM	**INCHES**	**MILLIMETERS**
M	**0.0795**	**2.02**
C	**0.0315**	**0.80**
Z	**0.111**	**2.82**
e	**0.037 BSC**	**0.95 BSC**
e1	**0.075 BSC**	**1.9 BSC**
b	**0.0315**	**0.80**

Notes

1. Dimensioning and tolerances per ANSI Y14.5M, 1985.
2. Controlling Dimension: Inches
3. Pin 3 is the cathode (Unidirectional Only).
4. Dimensions are exclusive of mold flash and metal burrs.

Marking Codes

Part Number	BAS21
Marking Code	JS

Package Information

Qty：3k/Reel

CONTACT INFORMATION

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The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.