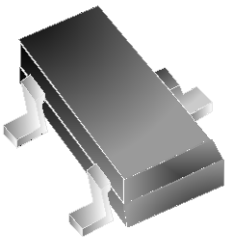
BAV23S

Switching Diode

Features

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

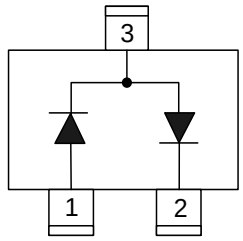


SOT-23

Mechanical Characteristics

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

Schematic & PIN Configuration



SOT-23 (Top View)

Absolute Maximum Rating

Parameter		Symbol	Value	Unit
Reverse Breakdown Voltage		V_{BR}	250	V
Continuous Reverse Voltage		V_R	200	V
RMS Reverse Voltage		$V_{R(RMS)}$	141	v
Continuous Forward Current		I_F	400	mA
Non-repetitive Peak Forward Current	t=1us	I_{FSM}	9	A
	t =100us		3	
	t=10ms		1.7	
Repetitive Peak Forward Surge Current		I_{FRM}	625	mA
Power Dissipation		P_D	350	mW
Junction Temperature		T_J	150	°C
Storage Temperature Range		T_{STG}	-55 to +150	°C
Thermal Resistance From Junction to Ambient		$R_{\theta JA}$	357	°C/W

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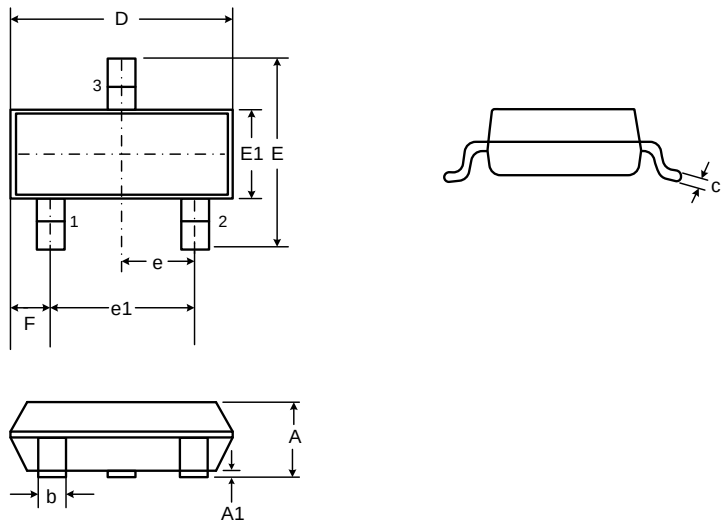
Electrical Characteristics (T_{amb}=25°C unless otherwise noted)

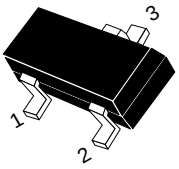
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	I_R = 100μA	250	-	-	V
Reverse Voltage Leakage Current	I_R	V_R = 250V	-	-	100	nA
Forward Voltage	V_F	I_F = 100mA	-	-	1	V
		I_F = 200mA	-	-	1.25	
Typical Junction Capacitance	C_J	V_R =0V, f=1MHz	-	5	-	pF
Reverse Recovery Time	T_{rr}	I_F= I_R=30mA, I_R=3mA, R_L=100Ω	-	40	-	nS

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Outline Drawing – SOT-23

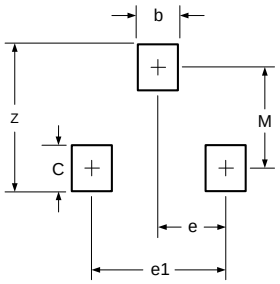
PACKAGE OUTLINE





SOT-23

DIMENSIONS				
SYMBOL	MILLIMETER		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	BAV23S
Marking Code	KL31

Package Information

Qty：3k/Reel

CONTACT INFORMATION

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Specifications are subject to change without notice.
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.