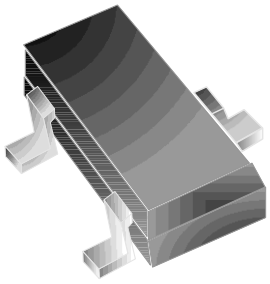
BAV70

Switching Diode Arrays

Features

- For General Purpose Switching Applications
- Fast Switching Speed
- High Conductance
- Low Current Leakage
- Small Outline Surface Mount Package

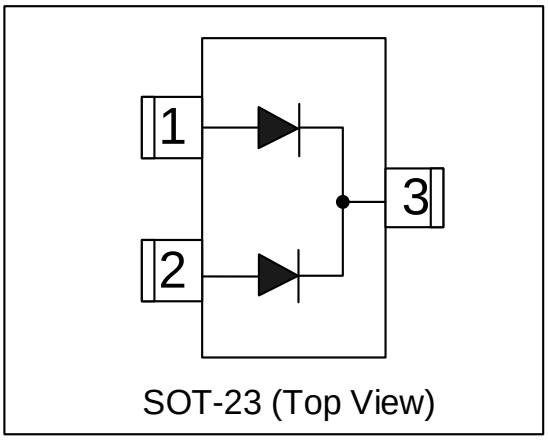


SOT-23

Mechanical Characteristics

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

Schematic & PIN Configuration



SOT-23 (Top View)

Absolute Maximum Rating (T_{amb}=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V_R	75	V
Continuous Forward current@ t=1.0S	I_{FSM}	1.0	A
Average Rectified Output Current	I_O	150	mA
Power Dissipation	P_D	350	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{stg}	-55 to 150	°C

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

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Continuous Reverse Voltage	V_R	I_R = 100uA	75	-	-	V
Reverse Voltage Leakage Current	I_R	V_R = 75V	-	-	2.5	μA
		V_R = 75V,T_a=150°C			50	
Forward Voltage Diode Capacitance	V_F	I_F = 1mA	-	-	0.715	V
		I_F = 10mA	-	-	0.855	
		I_F = 50mA	-	-	1.00	
		I_F = 150mA	-	-	1.25	
Diode Capacitance	C_D	V_R= 0V, f=1.0MHz	-	-	2	pF
Reverse RecoveryTtime	t_{rr}	I_F = 10mA, V_R= 0V, R_L= 100Ω	-	-	4	nS

Typical Characteristics

Figure 1. Forward Characteristics

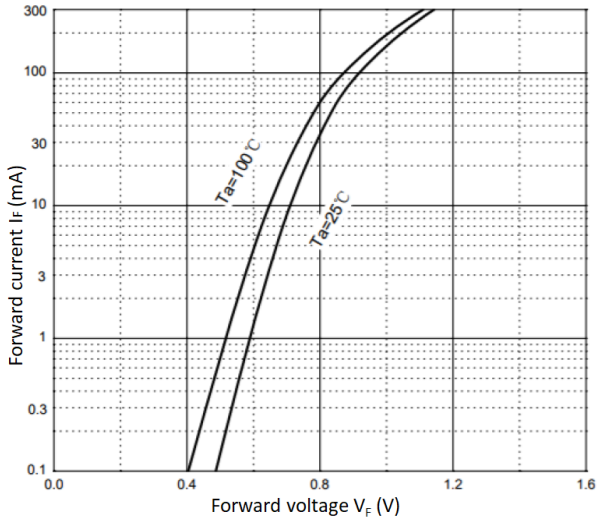


Figure 2. Reverse Characteristics

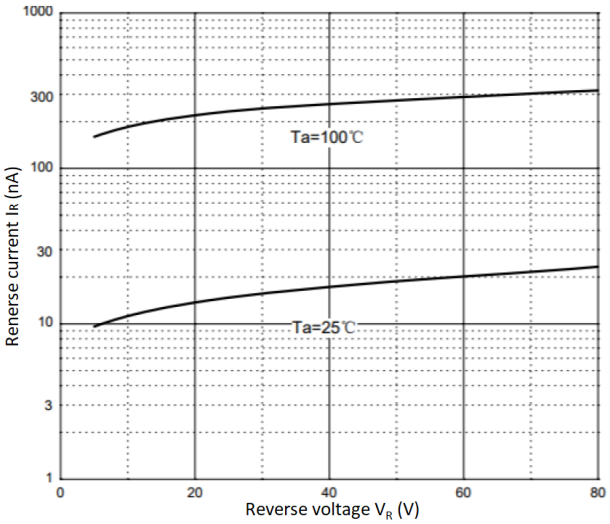


Figure 3. Capacitance Characteristics

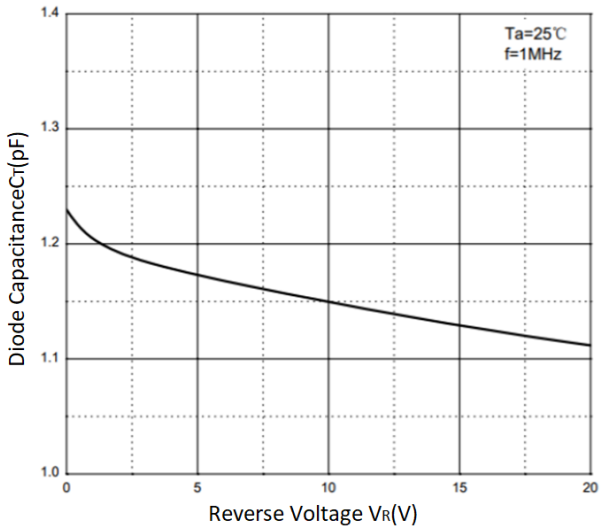
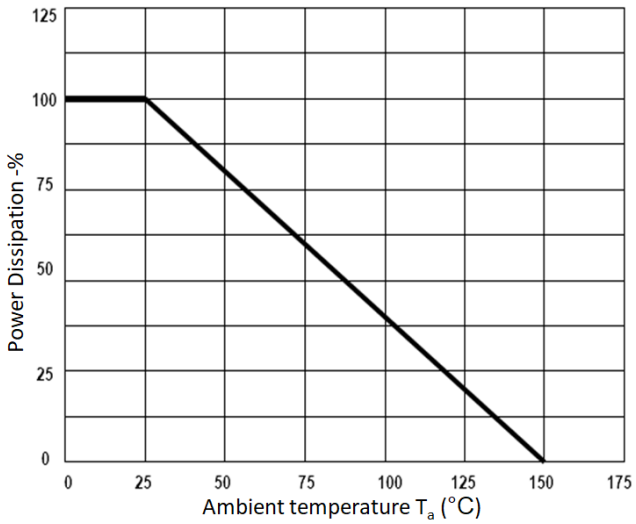
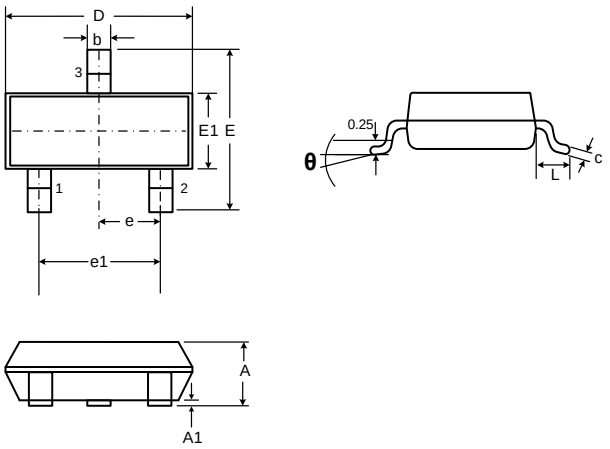


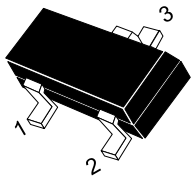
Figure 4.Power Derating Curve



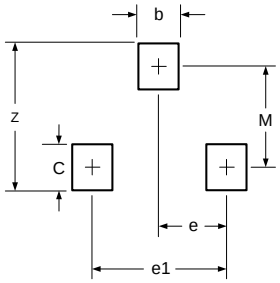
Outline Drawing – SOT-23

PACKAGE OUTLINE





DIMENSIONS				
SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	0.90	1.15	0.035	0.045
A1	0.00	0.10	0.000	0.004
b	0.30	0.50	0.012	0.020
c	0.08	0.18	0.003	0.006
D	2.80	3.00	0.110	0.118
E	2.25	2.55	0.089	0.100
E1	1.20	1.40	0.047	0.055
e	0.95 BSC		0.0374 BSC	
e1	1.80	2.00	0.071	0.079
L	0.45	0.65	0.018	0.026
θ	0	8°	0	8°

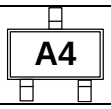


DIMENSIONS		
DIM	INCHES	MILLIMETERS
M	0.080	2.02
C	0.032	0.80
Z	0.111	2.82
e	0.037 BSC	0.95 BSC
e1	0.075 BSC	1.90 BSC
b	0.032	0.80

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	BAV70
Marking Code	

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.