

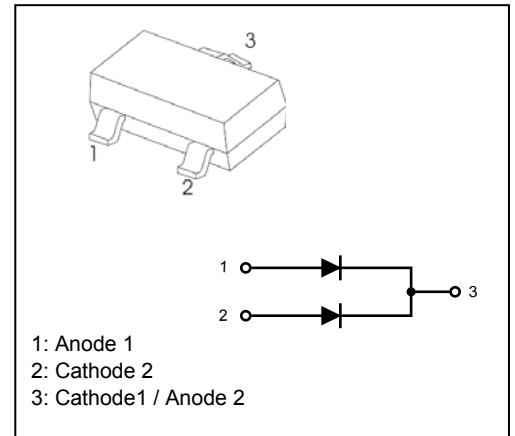
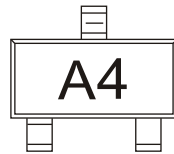
Switching Diode

BAV70

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

Marking



SOT-23

Maximum Ratings @T_A=25°C

Parameter	Symbol	Limits	Unit
Reverse voltage	V _R	70	V
Forward Current	I _F	200	mA
Peak Forward Surge Current	I _{FM(surge)}	500	mA
Power Dissipation	P _D	225	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	556	°C/W
Junction temperature	T _J	150	°C
Storage temperature range	T _{STG}	-55-150	°C

Electrical Characteristics @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V _R	70			V	I _R =100μA
Forward voltage	V _{F1}			0.715	V	I _F =1mA
	V _{F2}			0.855	V	I _F =10mA
	V _{F3}			1	V	I _F =50mA
	V _{F4}			1.25	V	I _F =150mA
Reverse current	I _R			2.5	μA	V _R =70V
Capacitance between terminals	C _T			1.5	pF	V _R =0, f=1MHz
Reverse recovery time	t _{rr}			6	ns	I _F = I _R = 10mA, I _{rr} = 0.1 x I _R , R _L = 100Ω



Typical Characteristics

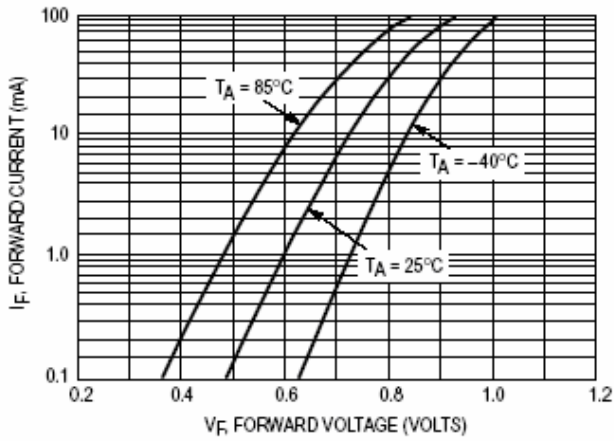


Figure 1. Forward Voltage

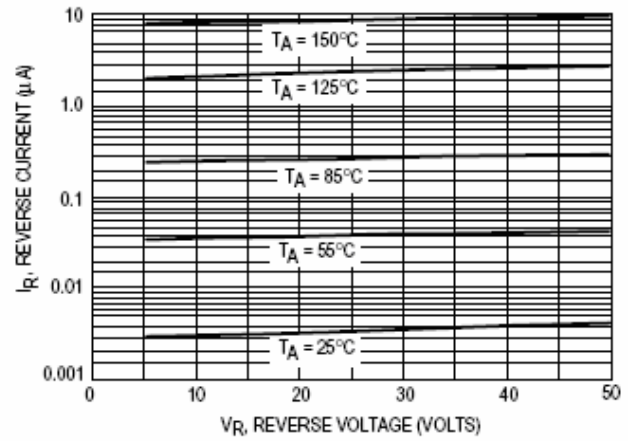


Figure 2. Leakage Current

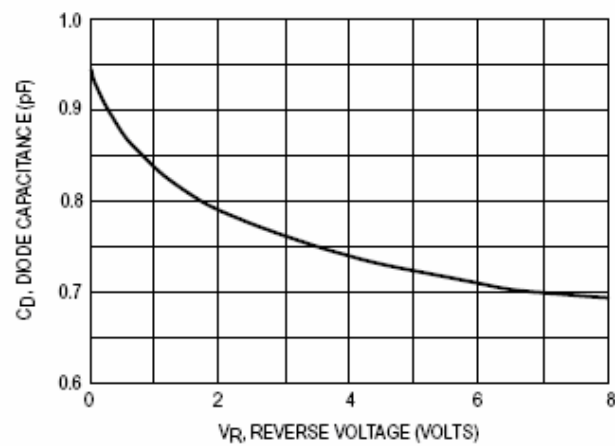
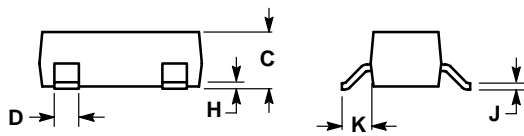
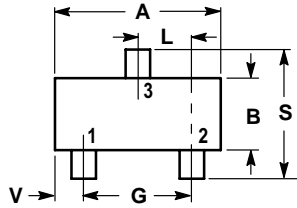


Figure 3. Capacitance



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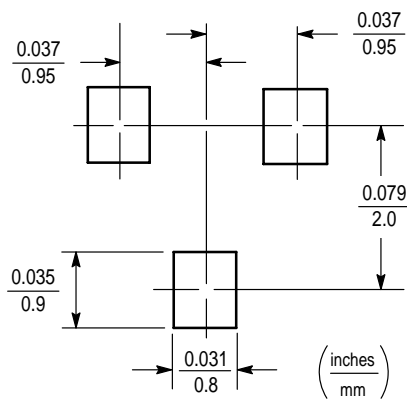


NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.1102	0.1197	2.80	3.04
B	0.0472	0.0551	1.20	1.40
C	0.0350	0.0440	0.89	1.11
D	0.0150	0.0200	0.37	0.50
G	0.0701	0.0807	1.78	2.04
H	0.0005	0.0040	0.013	0.100
J	0.0034	0.0070	0.085	0.177
K	0.0140	0.0285	0.35	0.69
L	0.0350	0.0401	0.89	1.02
S	0.0830	0.1039	2.10	2.64
V	0.0177	0.0236	0.45	0.60

- PIN 1. ANODE
 2. NO CONNECTION
 3. CATHODE



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