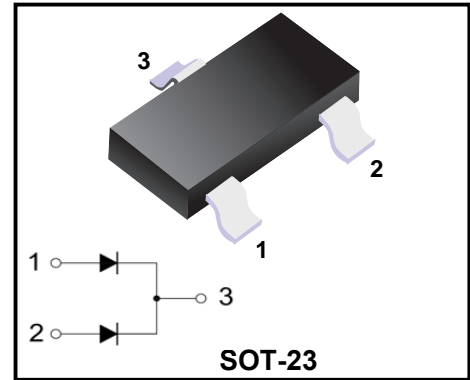


SWITCHING DIODE

Features

- Fast Switching Speed
- Surface Mount Package Ideally Surted for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



Marking Code	
BAV74	JA

Maximum Ratings @T_A=25°C

Parameter	Symbol	Value	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	50	V
DC Blocking Voltage	V _R	50	V
Average Rectified Output Current	I _O	200	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_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	V _{(BR)R}	I _R =5μA	50		V
Reverse voltage leakage current	I _R	V _R =50V		0.1	μA
Forward voltage	V _F	I _F =100mA		1	V
Diode Capacitance	C _D	V _R =0, f=1MHz		2	pF
Reveres recovery time	t _{rr}	I _F =I _R =10mA, R _L =100Ω, I _{rr} =0.1×I _R		4	nS

Ratings and Characteristic Curves

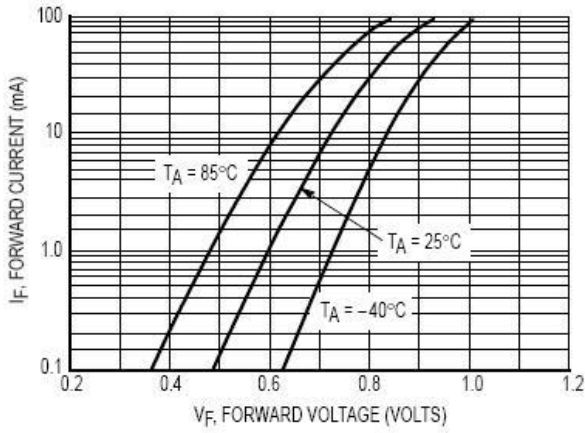


Figure 1. Forward Voltage

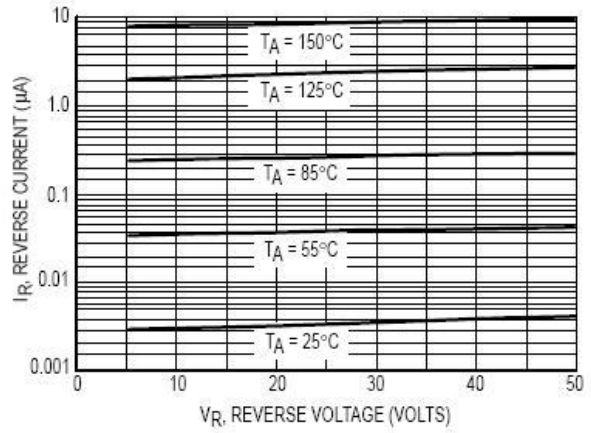


Figure 2. Leakage Current

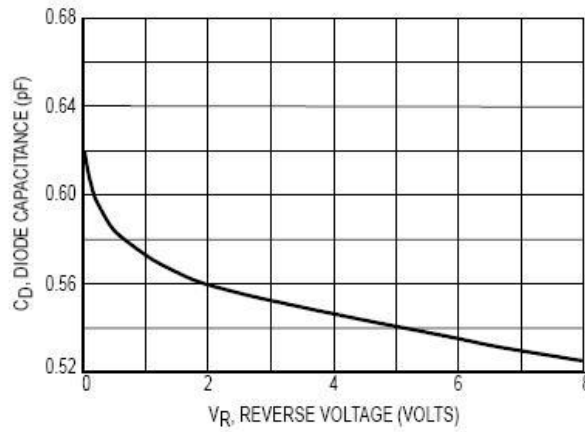


Figure 3. Capacitance

Ordering information

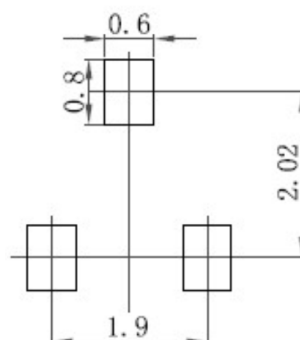
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118
E	1.2	1.4	47	55
E	1.9		75	
E1	0.95		37	
HE	2.1	2.55	83	100
Lp	0.15	0.45	5.9	18
Q	0.45	0.55	18	22
v	0.2		7.9	
W	0.1		4	

The recommended mounting pad size



Disclaimer

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