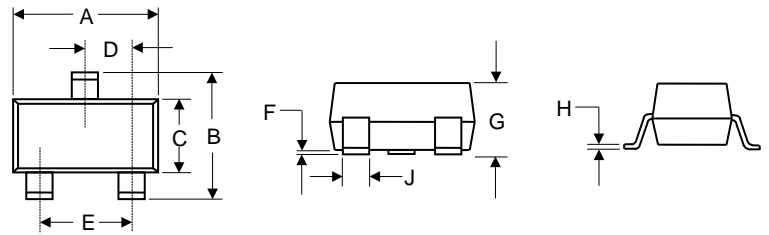
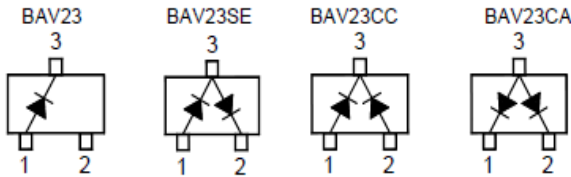


### Features

- \* High voltage switching diode
- \* BAV23 Marking Code: HC
- \* BAV23SE Marking Code: PY
- \* BAV23CC Marking Code: PZ
- \* BAV23CA Marking Code: RA



**RoHS**  
COMPLIANT



SOT-23				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.110	0.120	2.80	3.04
B	0.087	0.102	2.20	2.60
C	0.047	0.055	1.20	1.40
D	0.035	0.04	0.89	1.02
E	0.070	0.080	1.78	2.04
F	---	0.004	---	0.10
G	0.035	0.047	0.89	1.20
H	0.003	0.008	0.08	0.19
J	0.015	0.02	0.37	0.51

### Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V <sub>RRM</sub>	250	V
Reverse Voltage	V <sub>R</sub>	200	V
Forward Current	I <sub>F(AV)</sub>	400	mA
Repetitive Peak Forward Current	I <sub>FRM</sub>	625	mA
Non-repetitive Peak Forward Surge Current at t = 10 ms at t = 100 μs at t = 1 μs	I <sub>FSM</sub>	1.7 3 9	A
Power Dissipation	P <sub>tot</sub>	350	mW
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	357	°C/W
Operating Junction and Storage Temperature Range	T <sub>j</sub> / T <sub>stg</sub>	- 65 to + 150	°C

### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I <sub>R</sub> = 100 μA	V <sub>(BR)R</sub>	250	-	V
Forward Voltage at I <sub>F</sub> = 100 mA at I <sub>F</sub> = 200 mA	V <sub>F</sub>	- -	1 1.25	V
Reverse Current at V <sub>R</sub> = 200 V, T <sub>J</sub> = 25 °C at V <sub>R</sub> = 200 V, T <sub>J</sub> = 150 °C	I <sub>R</sub>	- -	100 100	nA μA
Total Capacitance at V <sub>R</sub> = 0 V, f = 1 MHz	C <sub>tot</sub>	-	5	pF
Reverse Recovery Time at I <sub>F</sub> = I <sub>R</sub> = 30 mA, I <sub>rr</sub> = 0.1 X I <sub>R</sub> , R <sub>L</sub> = 100 Ω	t <sub>rr</sub>	-	50	ns

### Ratings and Characteristic Curves

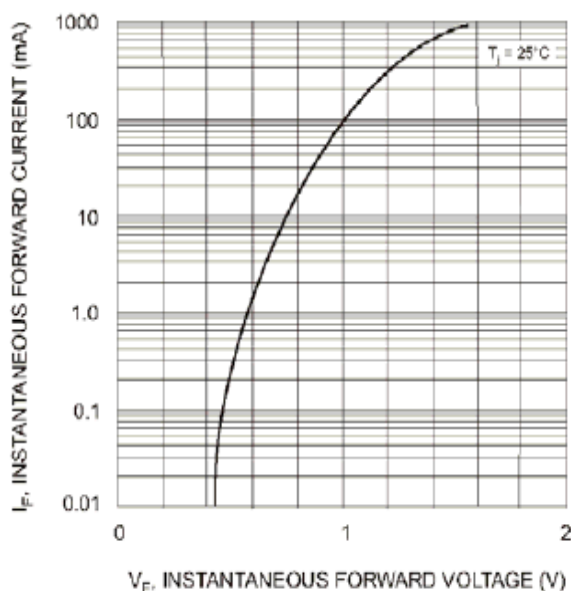


Fig. 1 Forward Characteristics

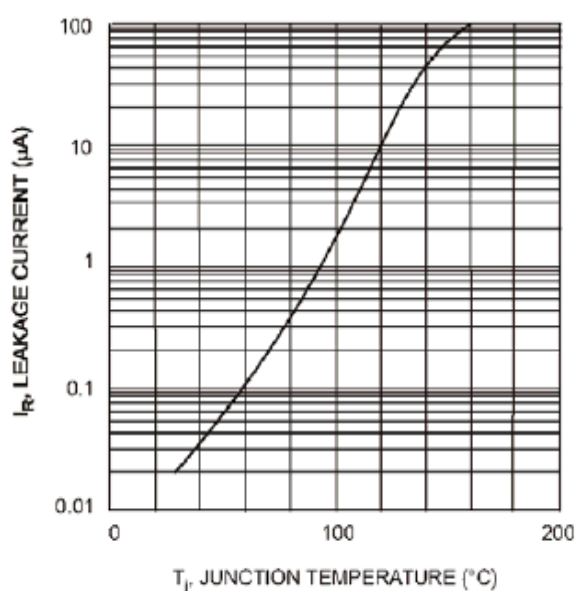


Fig. 2 Leakage Current vs Junction Temperature



## BAV23 / SE / CC / CA

### *Silicon Epitaxial Planar Diodes*

#### Ordering Information

Part No.	Package	Packing Code	Packing
BAV23 / SE / CC / CA	SOT-23	R30	3000pcs/Reel

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