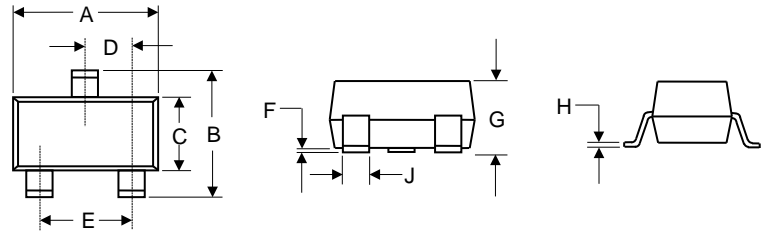
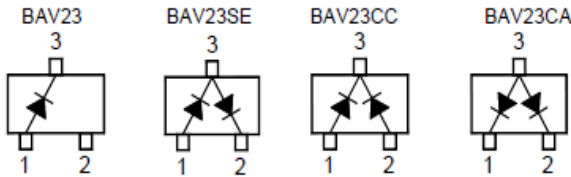


Features

- * 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_A=25°C unless otherwise noted)

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

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 μA	V _{(BR)R}	250	-	V
Forward Voltage at I _F = 100 mA at I _F = 200 mA	V _F	- -	1 1.25	V
Reverse Current at V _R = 200 V, T _j = 25 °C at V _R = 200 V, T _j = 150 °C	I _R	- -	100 100	nA μA
Total Capacitance at V _R = 0 V, f = 1 MHz	C _{tot}	-	5	pF
Reverse Recovery Time at I _F = I _R = 30 mA, I _{rr} = 0.1 X I _R , R _L = 100 Ω	t _{rr}	-	50	ns

Ratings and Characteristic Curves

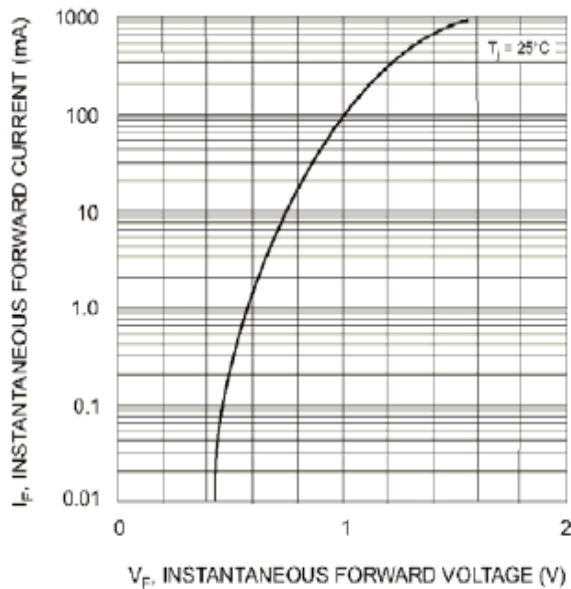


Fig. 1 Forward Characteristics

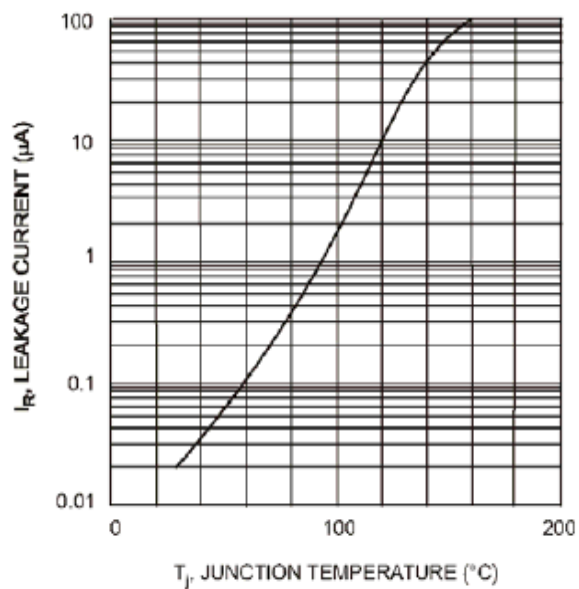


Fig. 2 Leakage Current vs Junction Temperature



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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