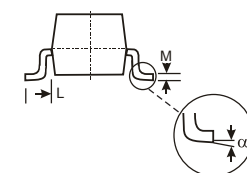
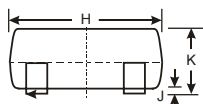
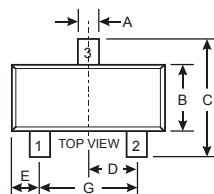


Features

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

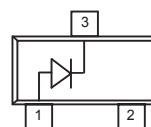
DEVICE	MARKING	TYPE
BAV23	HC	Single
BAV23SE	PY	Dual
BAV23CC	PZ	Dual
BAV23CA	RA	Dual



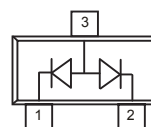
SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.20	1.40
C	2.30	2.50
D	0.89	1.03
E	0.45	0.60
G	1.78	2.05
H	2.80	3.00
J	0.013	0.10
K	0.903	1.10
L	0.45	0.61
M	0.085	0.180
α	0°	8°
All Dimensions in mm		

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

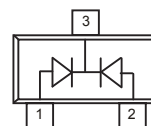
Parameter	Symbol	Value	Unit
Repetitive Reverse Voltage	V_{RRM}	250	V
Reverse Voltage	V_R	200	V
Forward Current	I_F	400	mA
Repetitive Peak Forward Current	I_{FRM}	625	mA
Non-repetitive Peak Forward Surge Current	I_{FSM}	9 3 1.7	A
		$t = 1 \mu\text{s}$ $t = 100 \mu\text{s}$ $t = 10 \text{ ms}$	
Power Dissipation	P_D	350	mW
Junction to Ambient Air	$R_{\theta JA}$	357	$^\circ\text{C/W}$
Operating Junction	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_S	- 65 to + 150	$^\circ\text{C}$



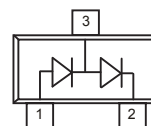
BAV23



BAV23CA



BAV23CC

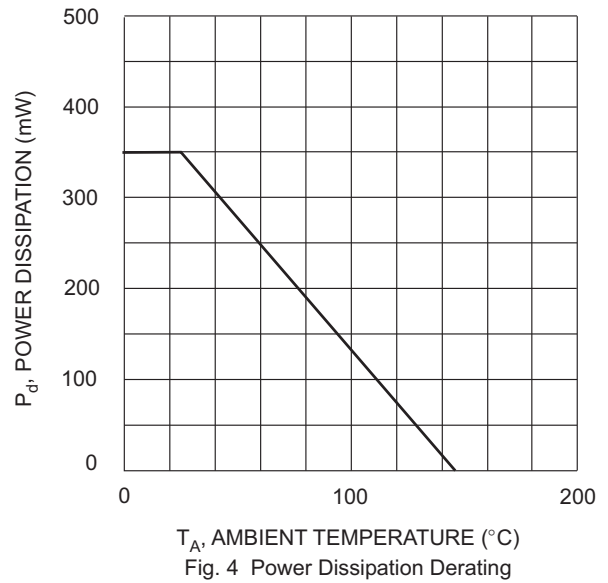
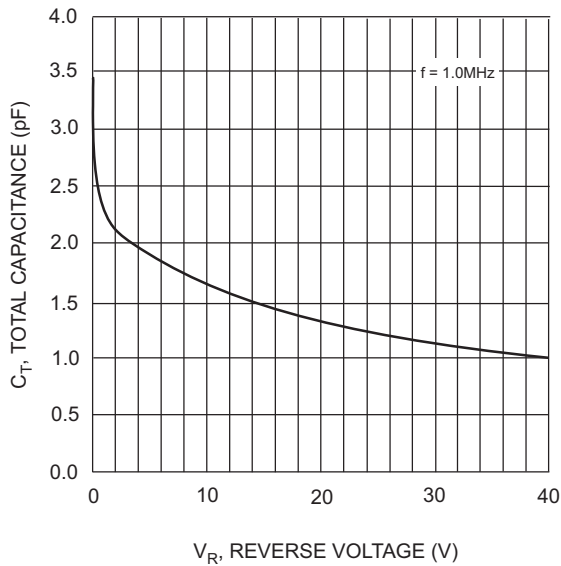
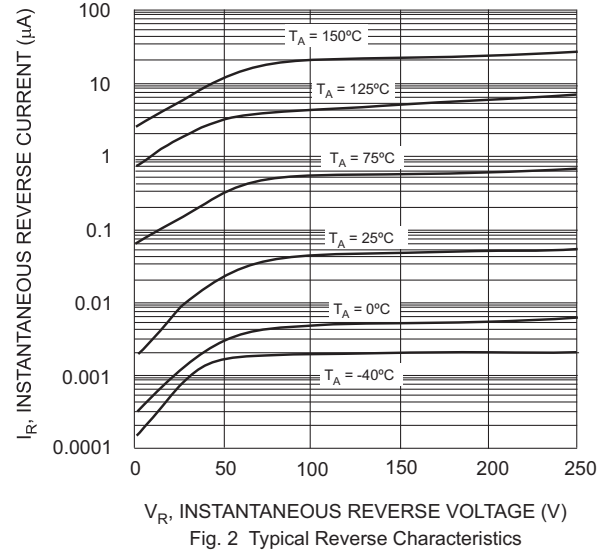
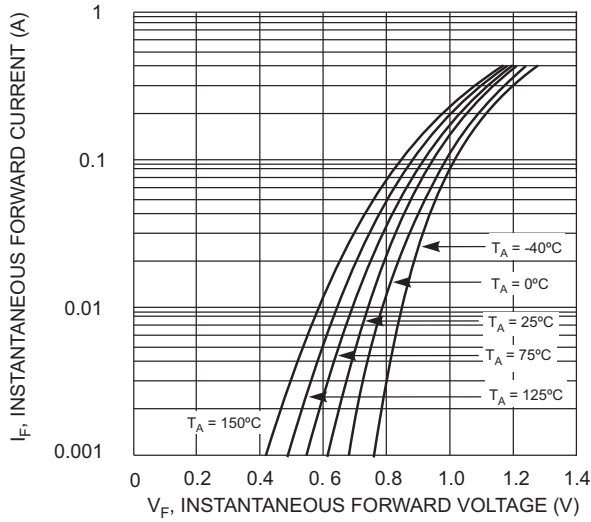


BAV23SE

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter		Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	$V_{(BR)R}$	250	-	V
Forward Voltage at $I_F = 100 \text{ mA}$ at $I_F = 200 \text{ mA}$	V_F	- -	1 1.25	V
Reverse Current at $V_R = 200 \text{ V}$, $T_j = 25^\circ\text{C}$ at $V_R = 200 \text{ V}$, $T_j = 150^\circ\text{C}$	I_R	- -	100 100	nA μA
Total Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_T	-	5	pF
Reverse Recovery Time at $I_F = I_R = 30 \text{ mA}$, $I_{rr} = 0.1 \times I_R$, $R_L = 100 \Omega$	t_{rr}	-	50	ns

TYPICAL TRANSIENT CHARACTERISTICS



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