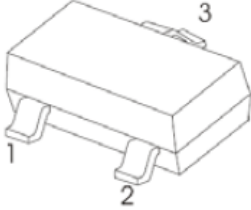


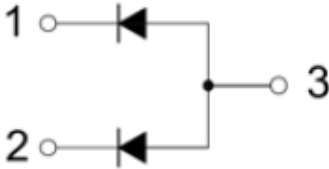
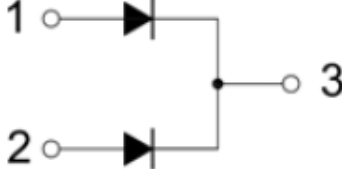
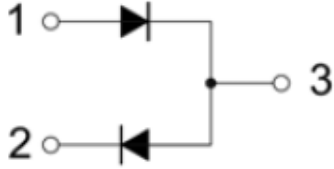
## Dual Switching Diode

### SOT-23



### Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Fast Switching Speed
- High Conductance
- For General Purpose Switching Applications

BAV23A	BAV23C	BAV23S
		
<b>MARKING: KT7</b>	<b>MARKING: KT6</b>	<b>MARKING: KL31</b>

### ■Maximum Rating, (T<sub>a</sub>=25°C Unless otherwise specified)

Item	Symbol	Unit	Value
Repetitive peak reverse voltage	V <sub>RRM</sub>	V	250
Average Rectified Output Current	I <sub>O</sub>	mA	200
Power Dissipation	P <sub>D</sub>	mW	350
Thermal Resistance from Junction to Ambient	R <sub>thJA</sub>	°C/W	357
Operation Junction Temperature	T <sub>J</sub>	°C	-55 to +150
Storage Temperature	T <sub>STG</sub>	°C	-55 to +150

### ■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAV23C	F2	Approximate 0.008	3000	30000	120000	7" reel

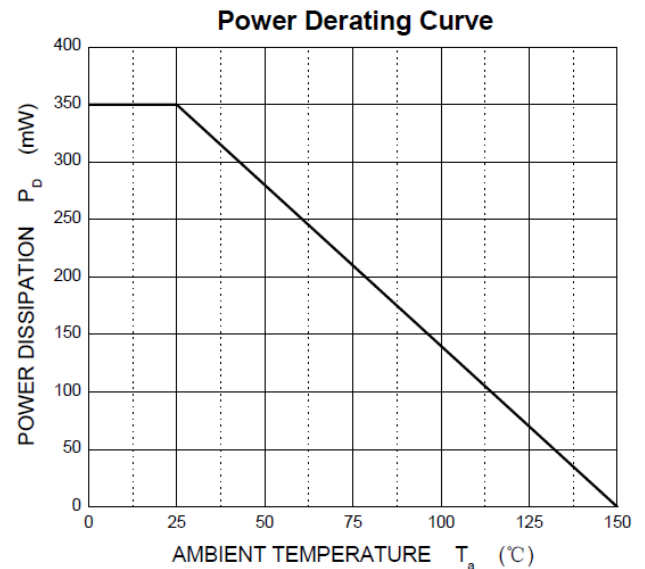
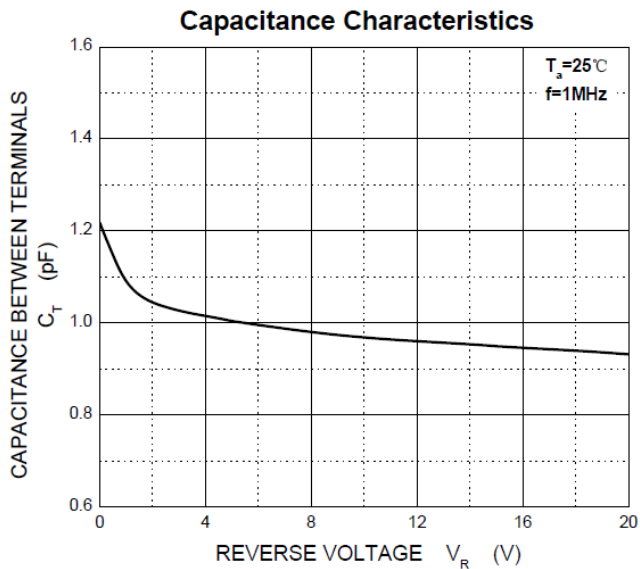
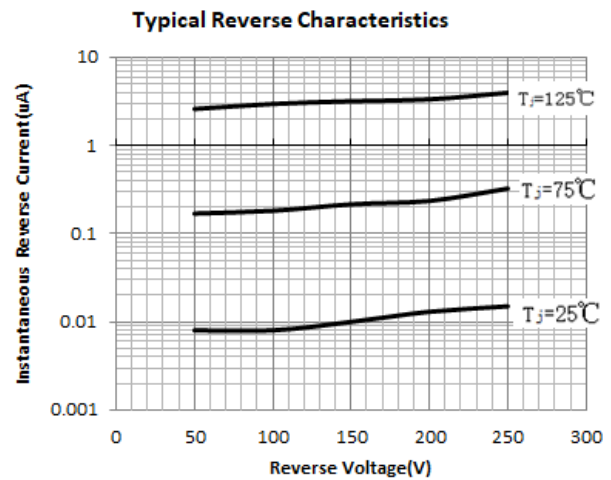
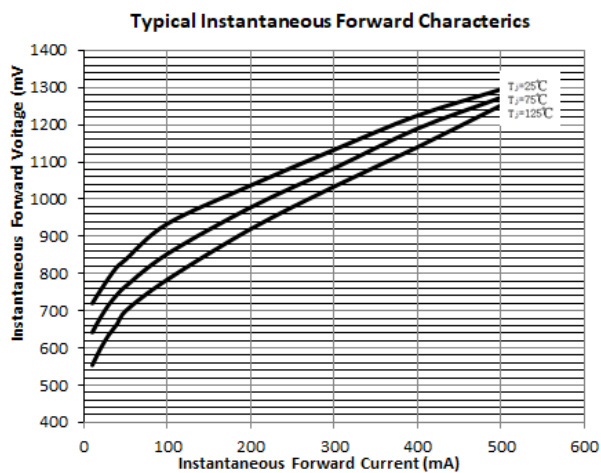


## BAV23A/C/S

### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified, Per Leg)

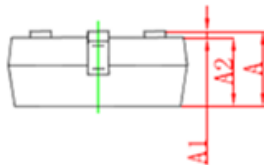
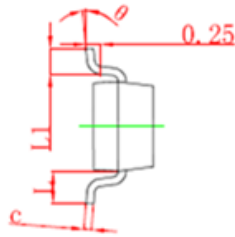
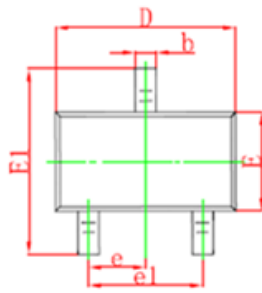
Item	Symbol	Unit	Conditions	Min	Typ	Max
Reverse Voltage	$V_{BR}$	V	$I_R=100\mu\text{A}$	250		
Forward Voltage	$V_F$	V	$I_{FM}=100\text{mA}$ , $T_J=25^\circ\text{C}$			1
			$I_{FM}=200\text{mA}$ , $T_J=25^\circ\text{C}$			1.25
Reverse Current	$I_R$	$\mu\text{A}$	$V_R=200\text{V}$			0.1
Total Capacitance	$C_{tot}$	pF	$f=1.0\text{MHz}$ , $V_R=0\text{V}$			5
Reverse Recovery Time	$T_{rr}$	ns	$I_F=I_R=30\text{mA}$ , $V_R=6\text{V}$ , $R_L=100\Omega$ , $I_{rr}=3\text{mA}$			50

### ■ Typical Characteristics (Per Leg)



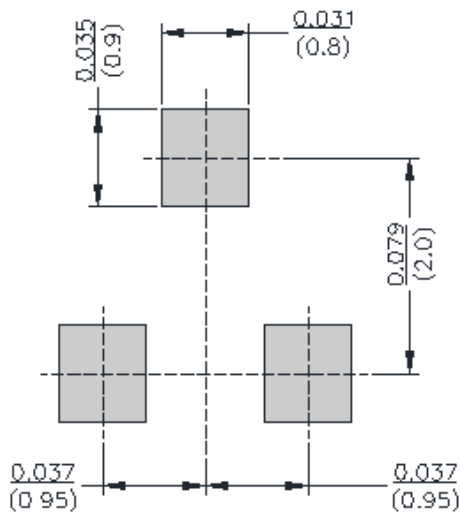


## ■SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

## ■SOT-23Suggested Pad Layout





### Disclaimer

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