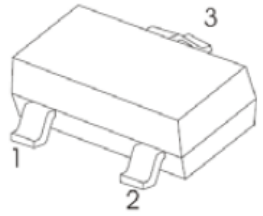
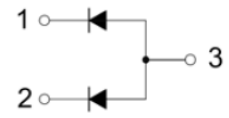
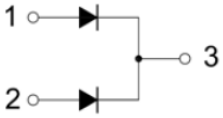
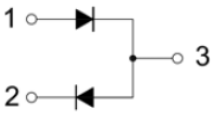
Dual Switching Diodes
BAV23A/C/S

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
		
MARKING: KT7	MARKING: KT6	MARKING:KL31

MAXIMUM RATINGS (Ta=25℃ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Repetitive peak reverse voltage	V_{RRM}	V		250
Average Rectified Output Current	I_O	mA		200
Non-repetitive Peak Forward Surge Current	I_{FSM}	A	t=1us	4
			t=8.3ms single half sine-wave	1.7
Power Dissipation	P_D	mW		350
Thermal Resistance from Junction to Ambient	R_{thJA}	℃/W		357
Operation Junction Temperature	T_J	℃		-55 to +150
Storage Temperature	T_{STG}	℃		-55 to +150

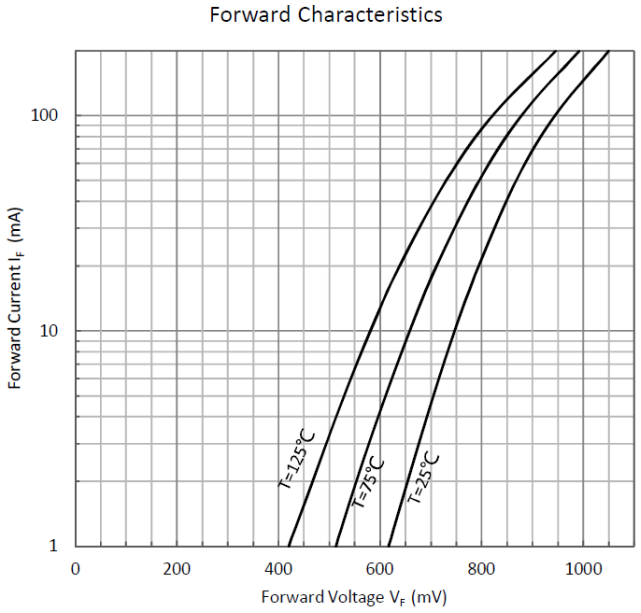
PACKAGING INFORMATION

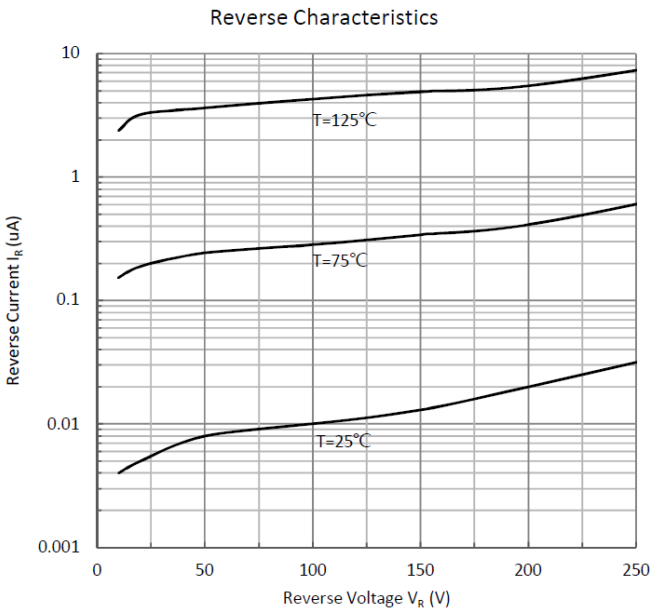
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAV23C	F2	Approximate 0.008	3000	30000	120000	7” reel

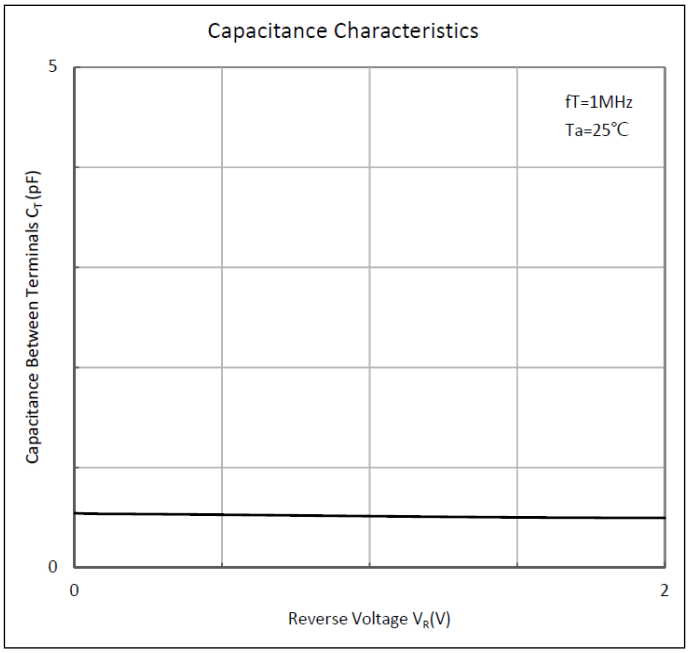
ELECTRICAL CHARACTERISTICS (Ta=25℃ Unless otherwise specified)

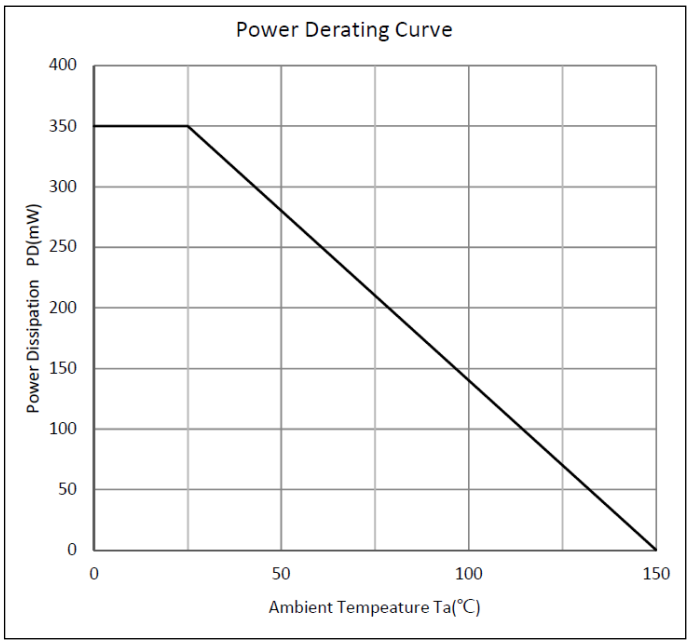
Item	Symbol	Unit	Conditions	Min	Typ	Max
Reverse Voltage	V_{BR}	V	I_R=100uA	250		
Forward Voltage	V_F	V	I_{FM}=100mA, T_J=25℃			1
			I_{FM}=200mA, T_J=25℃			1.25
Reverse Current	I_R	uA	V_R=200V			0.1
Total Capacitance	C_{tot}	pF	f=1.0MHz, V_R=0V			5
Reverse Recovery Time	T_{rr}	ns	I_F=I_R=30mA, V_R=6V,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

■ CHARACTERISTICS (TYPICAL)

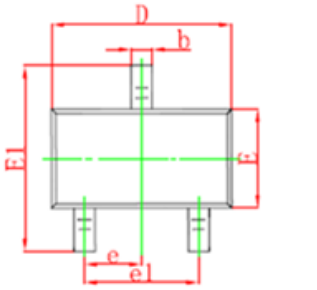


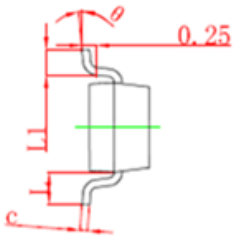


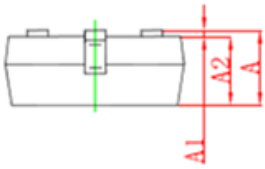




SOT-23 PACKAGING OUTLINE DIMENSIONS







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°