

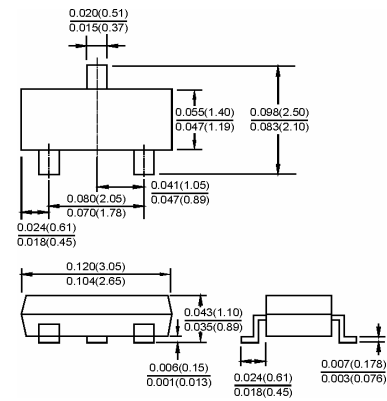


### FEATURES

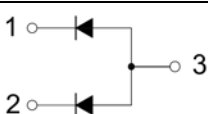
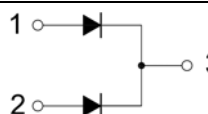
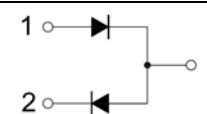



- ◇ Fast switching speed.
- ◇ Surface mount package ideally suited for
- ◇ Automatic insertion.
- ◇ For general purpose switching applications.
- ◇ High conductance.

### APPLICATIONS

- ◇ High speed switching application.



Dimensions in inches and (millimeters)

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

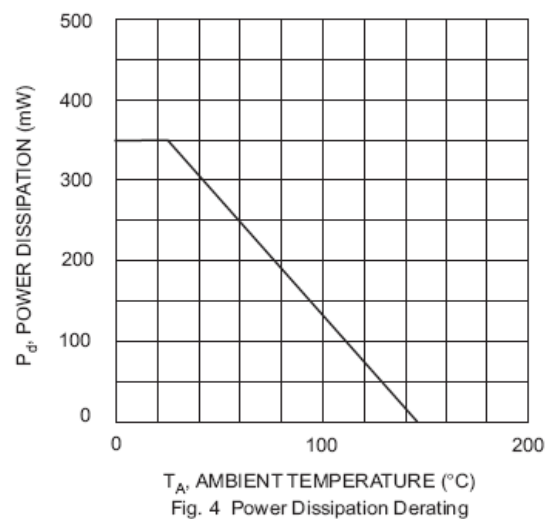
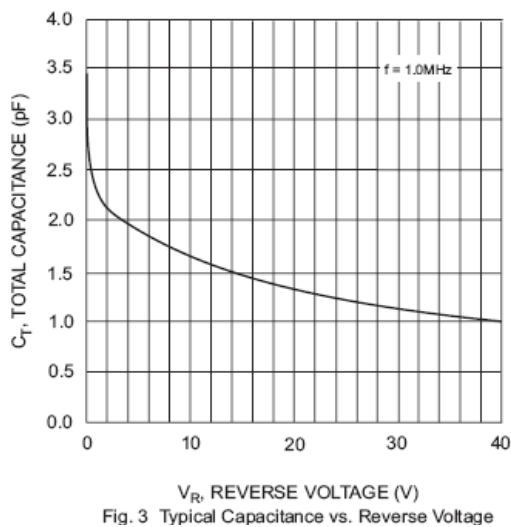
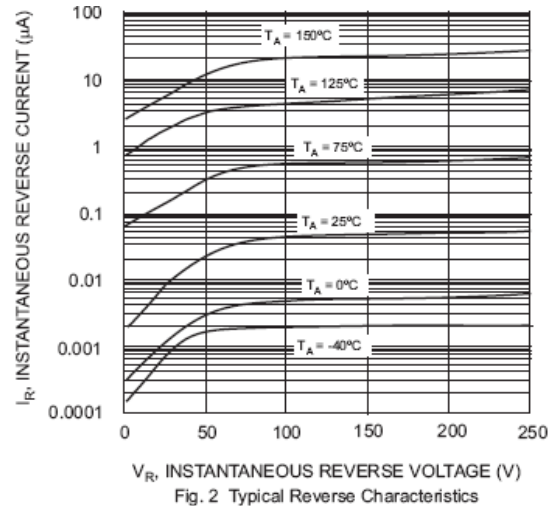
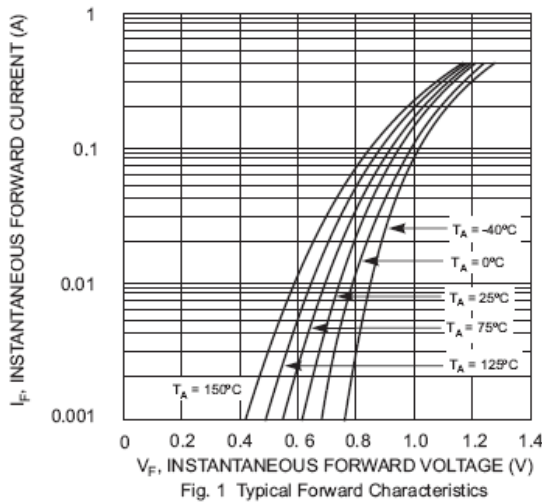
### MAXIMUM RATING @ Ta=25. unless otherwise specified

Characteristic	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	250	V
Working peak reverse voltage	$V_{RWM}$	200	V
DC reverse voltage	$V_R$		V
RSM Reverse Voltage	$V_{R(RMS)}$	141	V
Forward Continuous Current(Max.)	$I_{FM}$	400	mA
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	9.0	A
@ t = 1.0μs		3.0	
@ t = 10ms		1.7	
Repetitive Peak Forward Surge Current	$I_{FRM}$	625	mA
Power Dissipation	$P_d$	350	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	357	°C/W
Operating Junction Temperature Range	$T_j$	150	°C
Storage Temperature Range	$T_{STG}$	-65 to +150	°C

**ELECTRICAL CHARACTERISTICS @ Ta=25. unless otherwise specified**

Characteristic	Symbol	Min	MAX	UNIT	Test Condition
Reverse breakdown Voltage	$V_{(BR)R}$	250	-	V	$I_R=100\mu A$
Reverse Leakage Current	$I_R$	-	100	nA	$V_R=200V$
Forward voltage	$V_F$	-	1 1.25	V	$I_F=100mA$ $I_F=200mA$
Total Capacitance	$C_T$	-	5.0	pF	$V_R=0V, f=1.0MHz$
Reverse Recovery Time	$t_{rr}$	-	50	ns	$I_F=I_R=30mA, t_r=0.1 \cdot I_R$ $R_L=100\Omega$

**TYPICAL CHARACTERISTICS @ Ta=25. unless otherwise specified**



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SOT-23	3000/REEL	90000	40X20X22	5.00	4.00