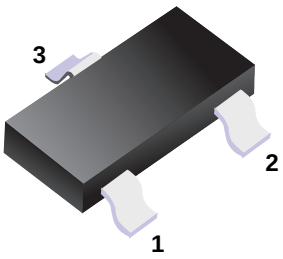
BAV23x

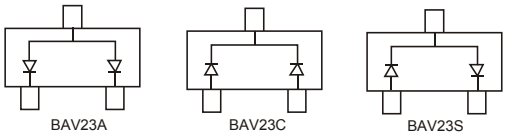
■ Switching Diodes

Features

- Fast Switching Speed
- For General Purpose Switching Applications.
- High Conductance



■ **Simplified outline(SOT-23)**



■ Absolute Maximum Ratings Ta = 25℃

Parameter		Symbol	Rating	Unit
Reverse Voltage		V_{RRM}	250	V
Working Peak Reverse Voltage		V_{RWM}	200	
DC Blocking Voltage		V_R	200	
RMS Reverse Voltage		$V_{R(RMS)}$	141	
Forward Continuous Current		I_{FM}	400	mA
Non-Repetitive Peak Forward Surge Current	t=1us	I_{FSM}	9	A
	t=100us		3	
	t=10ms		1.7	
Repetitive Peak Forward Surge Current		I_{FRM}	625	mA
Power Dissipation		P_d	350	mW
Thermal Resistance Junction to Ambient		$R_{\theta JA}$	357	℃/W
Junction Temperature		T_J	150	℃
Storage Temperature range		T_{stg}	-65 to 150	

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	I_R= 100 uA	250			V
Forward voltage	V_F	I_F= 100 mA			1	
		I_F= 200 mA			1.25	
Reverse voltage leakage current	I_R	V_R= 200 V , T_J = 25℃			100	nA
		V_R= 200 V , T_J = 150℃			100	uA
Junction capacitance	C_j	V_R= 0 V, f= 1 MHz			5	pF
Reverse recovery time	t_{rr}	I_F=I_R=30mA,Irr=0.1xI_R, R_L=100Ω			50	ns

■ Marking

NO.	BAV23A	BAV23C	BAV23S
Marking	KT7	KT6	KL31

■ Typical Characterisitics

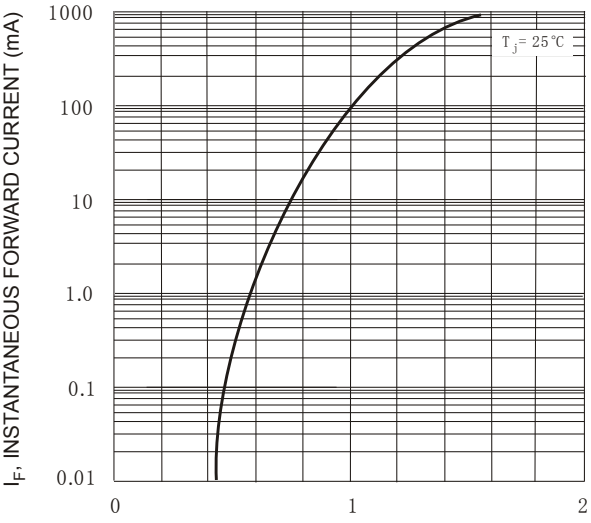


Fig. 1 Forward Characteristics

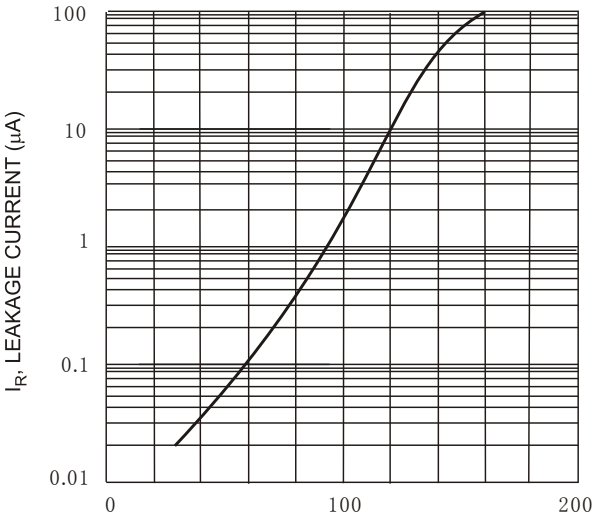
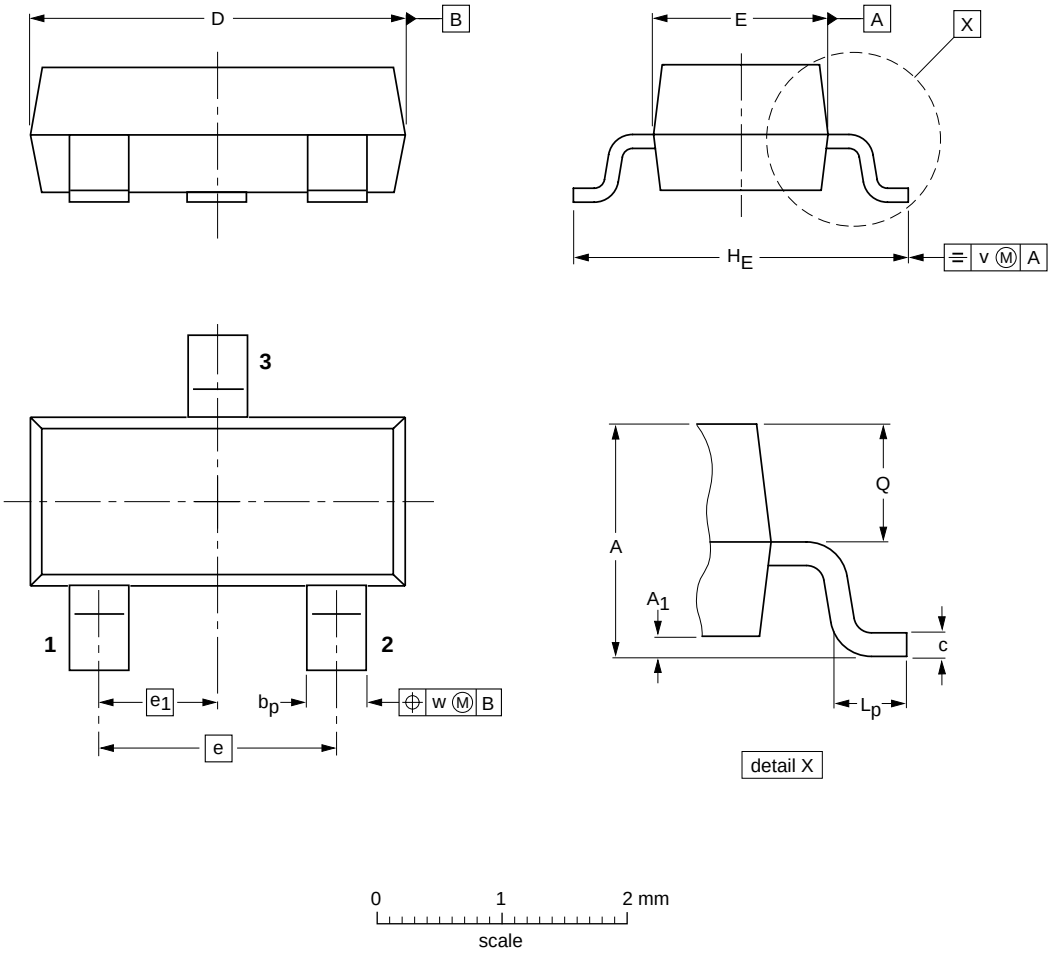


Fig. 2 Leakage Current vs Junction Temperature

■ SOT-23



DIMENSIONS (mm are the original dimensions)

UNIT	A	A_1 max.	b_p	c	D	E	e	e_1	H_E	L_p	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1