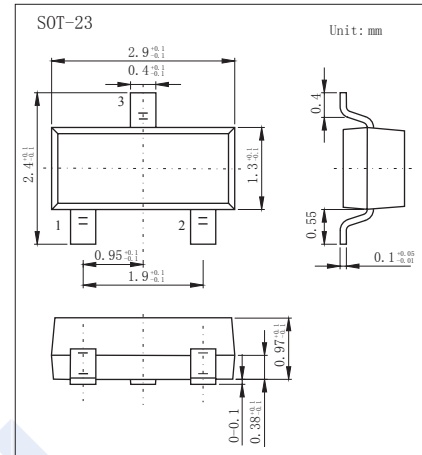
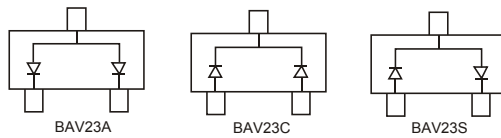


Switching Diodes

BAV23A/C/S (KAV23A/C/S)

■ Features

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



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

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	I_{FSM}	$t=1\mu\text{s}$	9	A
		$t=100\mu\text{s}$	3	
		$t=10\text{ms}$	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	$^\circ\text{C}/\text{W}$	
Junction Temperature	T_J	150	$^\circ\text{C}$	
Storage Temperature range	T_{stg}	-65 to 150		

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	$I_R = 100\ \mu\text{A}$	250			V
Forward voltage	V_F	$I_F = 100\ \text{mA}$			1	
		$I_F = 200\ \text{mA}$			1.25	
Reverse voltage leakage current	I_R	$V_R = 200\ \text{V}, T_J = 25^\circ\text{C}$			100	nA
		$V_R = 200\ \text{V}, T_J = 150^\circ\text{C}$			100	μA
Junction capacitance	C_j	$V_R = 0\ \text{V}, f = 1\ \text{MHz}$			5	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 30\ \text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100\ \Omega$			50	ns

■ Marking

NO.	BAV23A	BAV23C	BAV23S
Marking	KT7	KT6	KL31

Switching Diodes

BAV23A/C/S (KAV23A/C/S)

■ Typical Characteristics

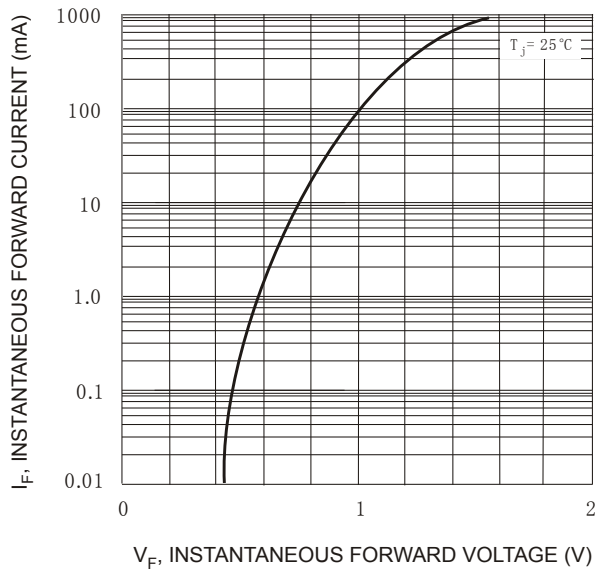


Fig. 1 Forward Characteristics

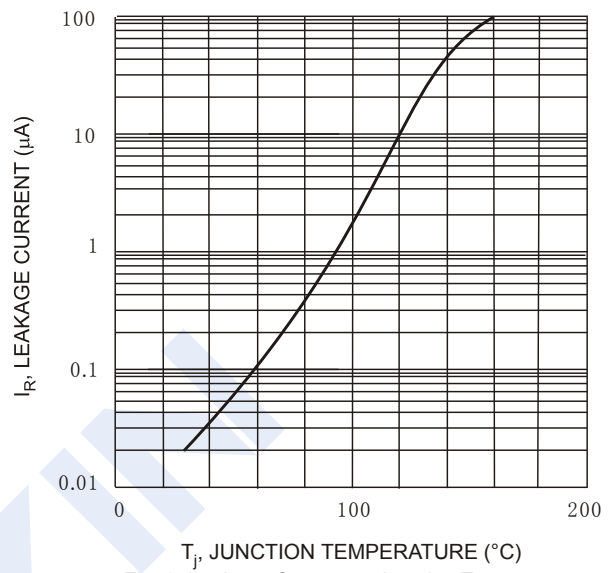


Fig. 2 Leakage Current vs Junction Temperature