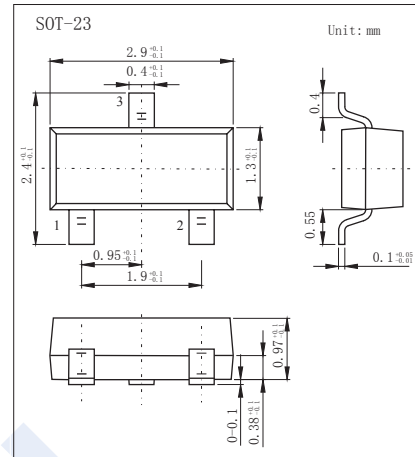
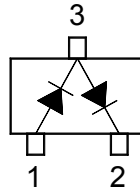


## Switching Diodes

### BAV99-HF (KAV99-HF)

#### ■ Features

- Fast Switching Speed
- For General Purpose Switching Applications.
- High Conductance
- Pb-Free Package May be Available.  
The G-Suffix Denotes a -0.01 Pb-Free Lead Finis



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit	
Repetitive Peak Reverse Voltage	$V_{RRM}$	100	V	
Continuous Reverse Voltage	$V_R$	75		
Forward Current (Double Diode Loaded)	$I_F$	125	mA	
Forward Current (Single Diode Loaded)		215		
Repetitive Peak Forward Current	$I_{FRM}$	450		
Non-repetitive Peak Forward Surge Current	$I_{FSM}$	$t=1s$	0.5	A
		$t=1ms$	1	
		$t=1\mu s$	1.5	
Power Dissipation	$P_d$	350	mW	
Junction Temperature	$T_J$	150	°C	
Storage Temperature range	$T_{stg}$	-65 to 150		

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_R$	$I_R=100\ \mu A$	100			V
Forward voltage	$V_F$	$I_F=1\ mA$			0.715	
		$I_F=10\ mA$			0.855	
		$I_F=50\ mA$			1	
		$I_F=150\ mA$			1.25	
Reverse voltage leakage current	$I_R$	$V_R=25\ V$			30	nA
		$V_R=75\ V$			1	uA
		$V_R=25\ V, T_J=150^\circ C$			30	
		$V_R=75\ V, T_J=150^\circ C$			50	
Junction capacitance	$C_j$	$V_R=0\ V, f=1\ MHz$			1.5	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=10\ mA, I_R=1\ mA, R_L=100\ \Omega$			4	ns

#### ■ Marking

Marking	A7* F
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## Switching Diodes

### BAV99-HF (KAV99-HF)

■ Typical Characteristics

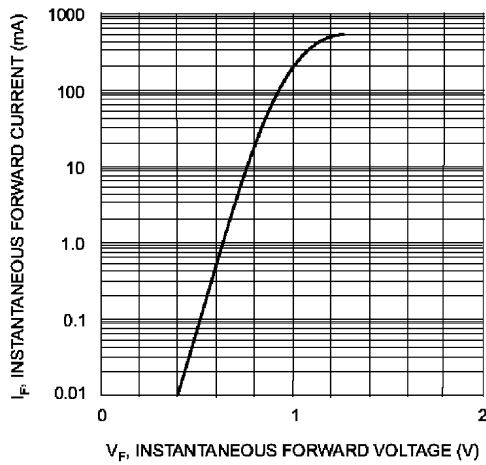


Fig. 1 Forward Characteristics

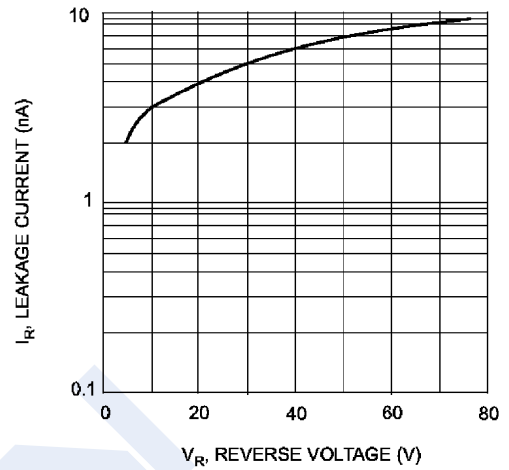


Fig. 2 Typical Leakage Current vs Reverse Voltage

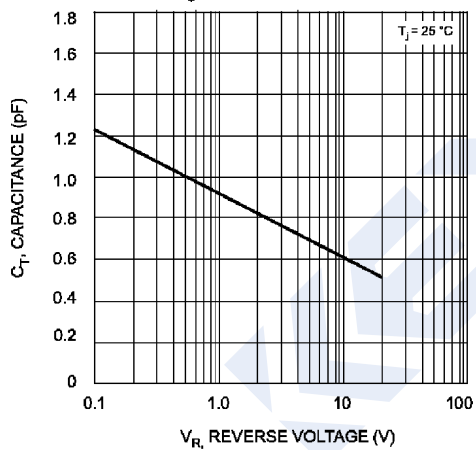


Fig. 3 Typical Total Capacitance vs Reverse Voltage