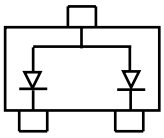
BAV99

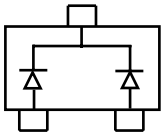
SOT-23

FEATURES

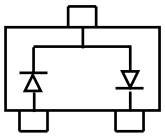
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance



BAW56 Marking: A1



BAV70 Marking: A4



BAV99 Marking: A7

Maximum Ratings @T_A=25℃

Parameter	Symbol	Limits	Unit
Reverse voltage	V_R	70	V
Forward Current	I_F	200	mA
Peak Forward Surge Current	$I_{FM(surge)}$	500	mA
Power Dissipation	P_D	225	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	556	℃/W
Junction temperature	T_J	150	℃
Storage temperature range	T_{STG}	-55-150	℃

Electrical Characteristics @T_A=25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V_R	70			V	I_R=100μA
Forward voltage	V_{F1}			0.715	V	I_F=1mA
	V_{F2}			0.855	V	I_F=10mA
	V_{F3}			1	V	I_F=50mA
	V_{F4}			1.25	V	I_F=150mA
Reverse current	I_R			2.5	μA	V_R=70V
Capacitance between terminals	C_T			1.5	pF	V_R=0,f=1MHz
Reverse recovery time	t_{rr}			6	ns	I_F = I_R = 10mA, Irr= 0.1 x I_R, R_L = 100Ω

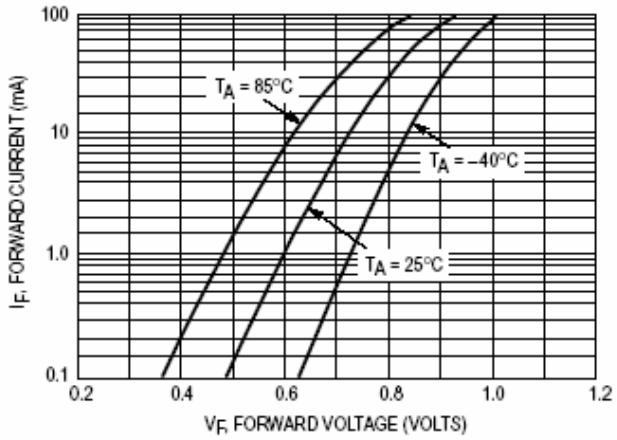


Figure 1. Forward Voltage

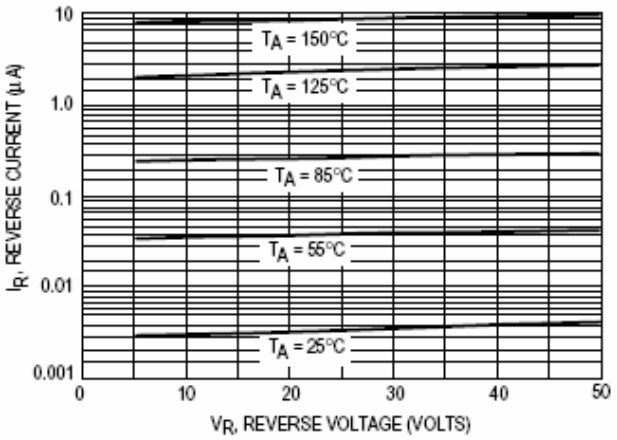


Figure 2 Leakage Current

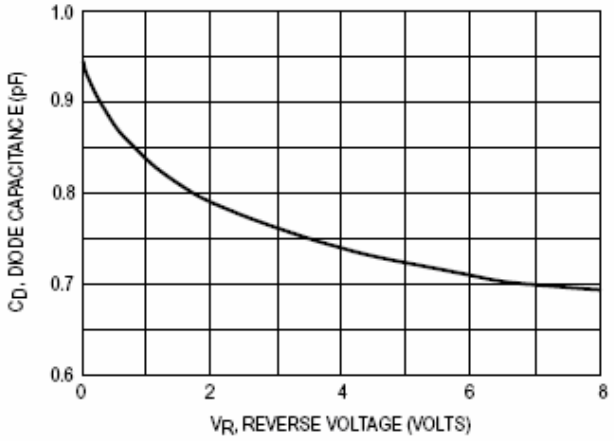


Figure 3 Capacitance