

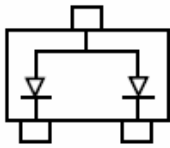


BAW56/BAV70/BAV99

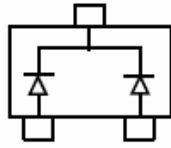
SWITCHING DIODE

FEATURES

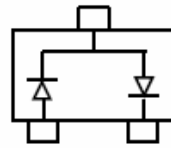
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance



BAW56 Marking: A1

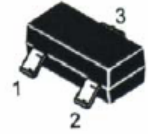


BAV70 Marking: A4



BAV99 Marking: A7

SOT-23



Maximum Ratings @ $T_A=25^{\circ}\text{C}$

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	$^{\circ}\text{C}/\text{W}$
Junction temperature	T_J	150	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55-150	$^{\circ}\text{C}$

Electrical Characteristics @ $T_A=25^{\circ}\text{C}$

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

Typical Characteristics

BAW56/BAV70/BAV99

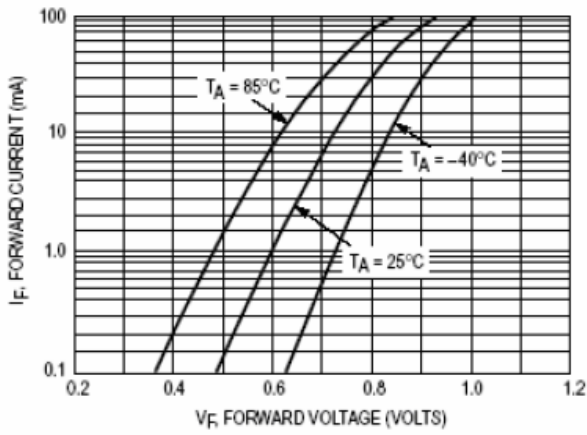


Figure 1. Forward Voltage

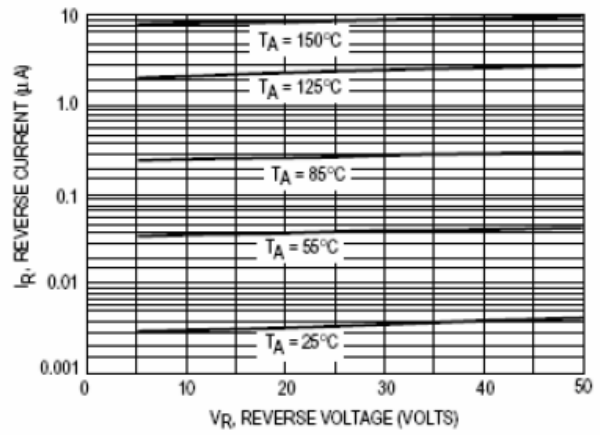


Figure 2 Leakage Current

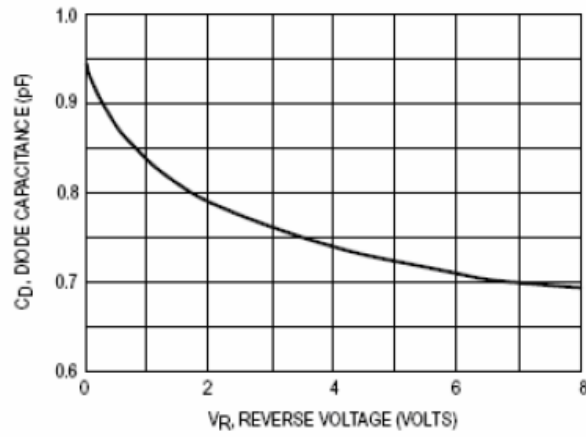


Figure 3 Capacitance

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