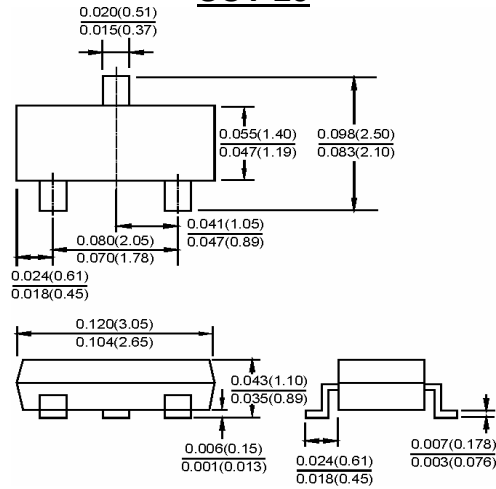




SOT-23

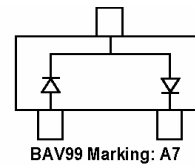
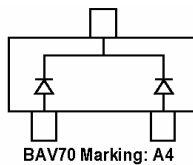
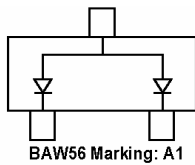


Features

- ✧ Fast switching speed
- ✧ Surface mount package ideally suited for automatic insertion
- ✧ For general purpose switching applications
- ✧ High conductance

Mechanical Data

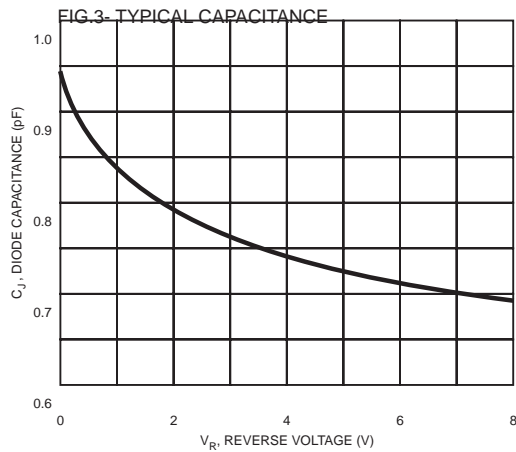
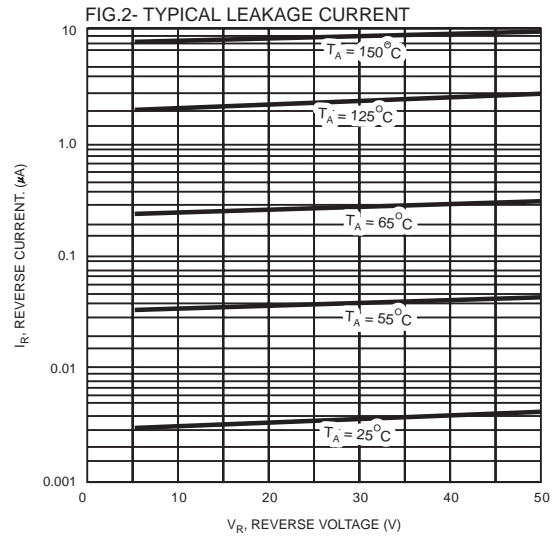
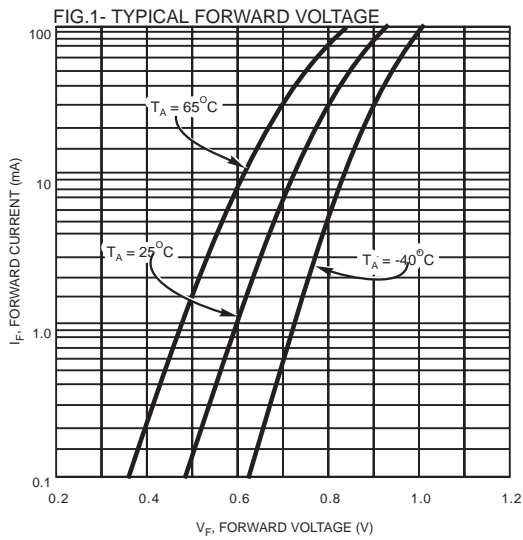
- ✧ Case: SOT-23, Molded plastic
- ✧ Marking: BAW56: A1, BAV70: A4, BAV99: A7
- ✧ Weight: 0.008 gram (approx.)



Maximum Ratings $T_A=25^{\circ}\text{C}$ unless otherwise specified				
Type Number	Symbol	BAW56/BAV70/BAV99	Units	
Reverse Voltage	V_R	75	V	
Forward Current	I_F	200	mA	
Peak Forward Surge Current	$I_{FM(\text{surge})}$	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 to 150	$^{\circ}\text{C}$	
Electrical Characteristics				
Type Number	Symbol	Min	Max	Units
Reverse Breakdown Voltage $I_R=100\mu\text{A}$	V_R	75		V
Forward Voltage $I_F=1.0\text{mA}$ $I_F=10\text{mA}$ $I_F=50\text{mA}$ $I_F=150\text{mA}$	V_F	-	0.715 0.855 1.0 1.25	V
Reverse Current $V_R=25\text{V}$ $V_R=75\text{V}$	I_R		30 2	nA uA
Capacitance between terminals $V_R=0, f=1.0\text{MHz}$	C_j	-	1.5	pF
Reverse Recovery Time (Note 1)	t_{rr}	-	6.0	nS

Note 1: Reverse Recovery Test Conditions: $I_F=I_R=10\text{mA}$, $I_{rr}=0.1 \times I_R$, $R_L=100\Omega$.

RATINGS AND CHARACTERISTIC CURVES (BAW56/BAV70/BAV99)



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SOT-23	3000/REEL	90000	40X20X22	5.00	4.00

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