

**SURFACE MOUNT
FAST SWITCHING DIODE**

**REVERSE VOLTAGE – 70 Volts
FORWARD CURRENT – 0.2 Ampere**

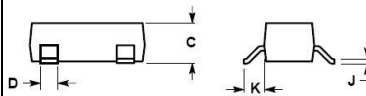
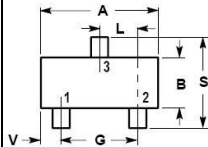
FEATURES

- Fast Switching Speed
- Ideally Suited for Automatic Insertion
- For general purpose switching applications

MECHANICAL DATA

- Case: SOT-23 Plastic
- Case Material: “Green” molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture Sensitivity: Level 1 per J-STD-020D
- Lead Free in RoHS 2002/95/EC Compliant

SOT-23



SOT-23		
Dim.	Min.	Max.
A	2.80	3.04
B	1.20	1.40
C	0.89	1.11
D	0.37	0.50
G	1.78	2.04
J	0.085	0.177
K	0.35	0.69
L	0.89	1.02
S	2.10	2.64
V	0.45	0.60
Dimensions in millimeter		

Maximum Ratings & Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	BAV70	Units
Non-Repetitive Peak Reverse Voltage DC Blocking Voltage	V _{RM} V _R	70	V
Forward Current	I _F	200	mA
Peak Forward Surge Current @t=10ms	I _{FSM}	500	mA
Power Dissipation	P _D	225	mW
Thermal Resistance, Junction to Ambient	R _{θJA}	556	°C/W
Operating Temperature Range	T _J	150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	I _R = 100uA	V _{BR}	70	--	--	V
Maximum Forward Voltage	I _F = 1mA I _F = 10mA I _F = 50mA I _F = 150mA	V _F	--	--	715 855 1000 1250	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 75V	I _R	--	--	2.5	uA
Typical Diode Capacitance	V _R = 1V, f = 1MHz	C _D	--	--	1.5	pF
Reverse Recovery time	I _{rr} = 1mA, I _F = I _R = 10mA, R _L = 100Ω	t _{rr}	--	--	6	nS

**RATING AND CHARACTERISTIC CURVES
BAV70**



Fig.1 Typical Forward Characteristics

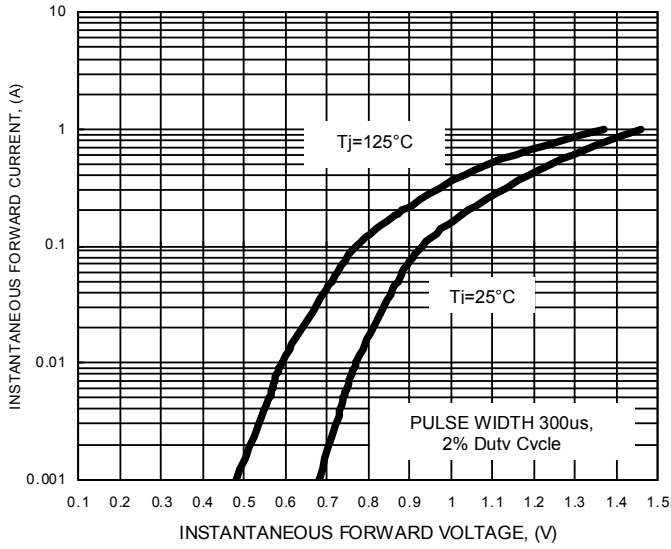


Fig.2 Typical Reverse Characteristics

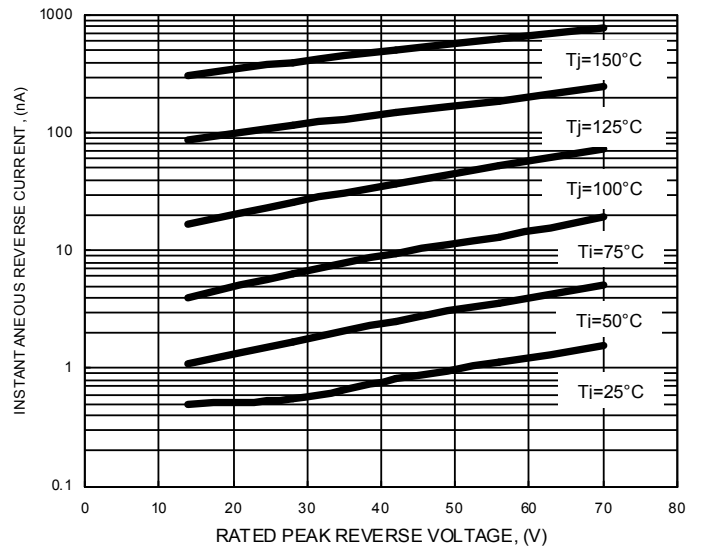
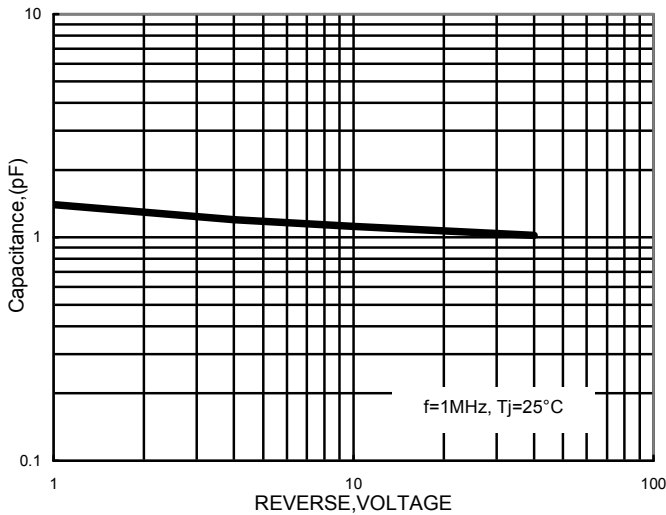


Fig.3 Total Capacitance vs. Reverse Voltage



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
BAV70	A4	

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