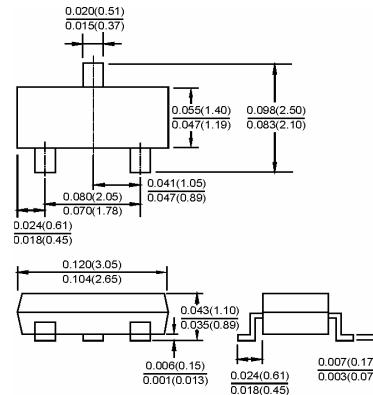

**SOT-23**


Dimensions in inches and (millimeters)

## Features

- ◊ Fast switching speed.
- ◊ High conductance.
- ◊ Common cathode.
- ◊ For general purpose switching applications.
- ◊ Surface mount package ideally suited for automatic insertion.

## Applications

- ◊ Small signal switching

## Ordering Information

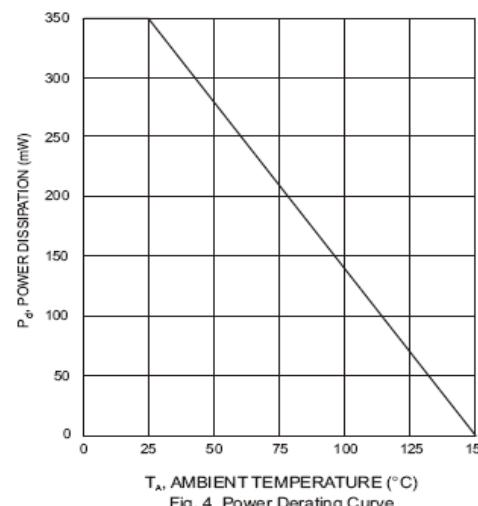
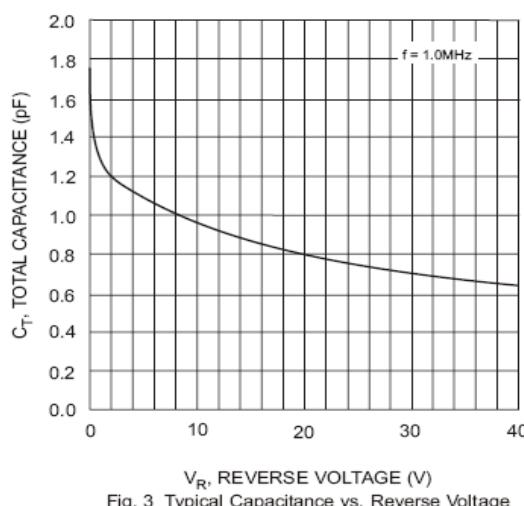
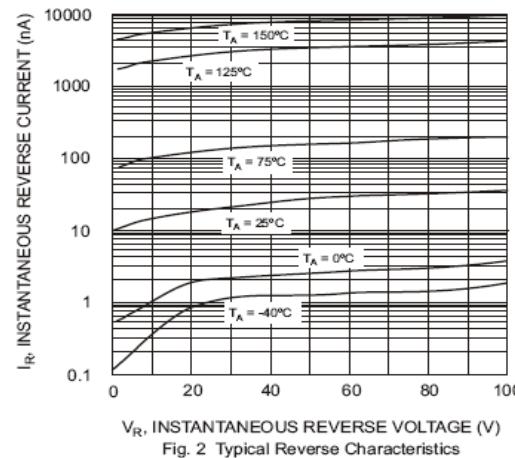
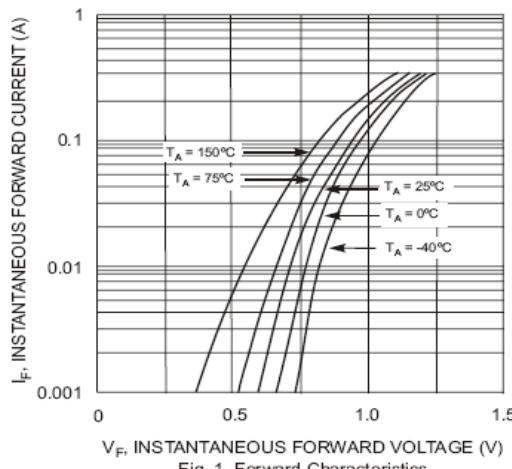
Type No.	Marking	Package Code
BAV70	A4	SOT-23

## MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V <sub>RM</sub>	100	V
Peak repetitive reverse voltage	V <sub>RRM</sub>		
Working peak reverse voltage	V <sub>RWM</sub>	75	V
DC Reverse Voltage	V <sub>R</sub>		
RMS Reverse Voltage	V <sub>R(RMS)</sub>	53	V
Forward continuous Current(Max.)	I <sub>FM</sub>	300	mA
Average rectified output current	I <sub>O</sub>	150	mA
Repetitive Peak Forward current	I <sub>FRM</sub>	450	mA
Non-repetitive forward Surge Current @t=1.0μs @t=1.0s	I <sub>FSM</sub>	2.0 1.0	A
Power Dissipation	P <sub>d</sub>	350	mW
Thermal resistance,junction to ambient air	R <sub>θJA</sub>	357	°C/W
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature range	T <sub>stg</sub>	-65+150	°C


**ELECTRICAL CHARACTERISTICS @  $T_a=25^\circ C$  unless otherwise specified**

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R = 2.5\mu A$	75		V
Reverse voltage leakage current	$I_R$	$V_R=70V$ $V_R=20V$		2.5 25	$\mu A$ nA
Forward voltage	$V_F$	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$		715 855 1000 1250	mV
Diode capacitance	$C_D$	$V_R=0V, f=1MHz$		2.0	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=10mA, I_R=1mA$ , $V_R=5V, R_L=100\Omega$		4	ns

**TYPICAL CHARACTERISTICS @  $T_a=25^\circ C$  unless otherwise specified**


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