

# BAV70

**PRV : 75 Volts**  
**Io : 200 mA**

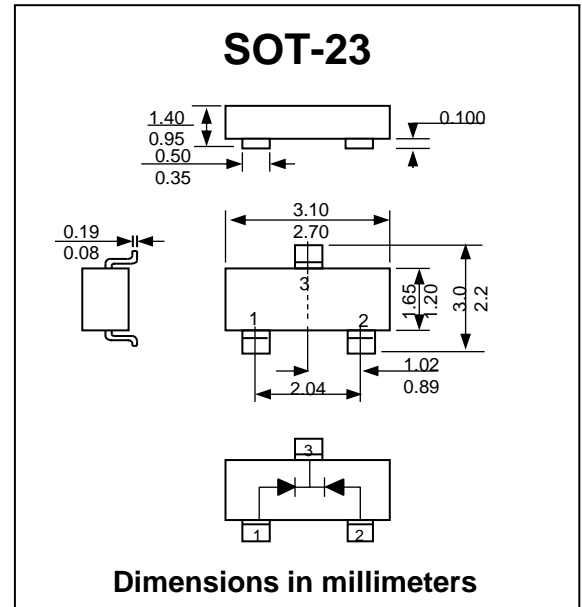
## FEATURES :

- \* Small plastic SMD package
- \* High switching speed : max. 4 ns
- \* Repetitive peak reverse voltage : max. 75 V
- \* **Pb / RoHS Free**

## MECHANICAL DATA :

- \* Case : SOT-23 plastic Case
- \* Marking Code : A4

## SMALL SIGNAL DIODE



## MAXIMUM RATINGS AND THERMAL CHARACTERISTIC (Ta = 25 °C unless otherwise specified)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	V
Reverse Voltage	$V_R$	75	V
Maximum Average Forward Current	$I_{F(AV)}$	200	mA
Maximum Non-repetitive Peak Forward Surge Current at Pulse width = 1 s	$I_{FSM}$	1.0	A
at Pulse width = 1 $\mu$ s		2.0	
Total Power Dissipation	$P_D$	350	mW
Operation Junction Temperature Range	$T_J$	150	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C

## ELECTRICAL CHARACTERISTICS (Ta = 25 °C unless otherwise specified)

Parameter	Test Condition	Symbol	Min.	Typ.	Max.	Unit
Breakdown Voltage	$I_R = 100 \mu A$	$I_R$	75	-	-	V
Forward Voltage	$I_F = 1 \text{ mA}$	$V_F$	-	-	715	mV
	$I_F = 10 \text{ mA}$		-	-	855	mV
	$I_F = 50 \text{ mA}$		-	-	1.0	V
Reverse Current	$V_R = 75 \text{ V}$	$I_R$	-	-	2.5	nA
	$V_R = 25 \text{ V} ; T_J = 150 \text{ }^\circ\text{C}$		-	-	30	$\mu A$
	$V_R = 75 \text{ V} ; T_J = 150 \text{ }^\circ\text{C}$		-	-	50	
Total Capacitance	$f = 1 \text{ MHz}$	$C_T$	-	-	2	pF
Reverse Recovery Time	$I_F = I_R = 10 \text{ mA}$ , to $I_{rr} = 1 \text{ mA}$ $R_L = 50 \Omega$	$T_{rr}$	-	-	4	ns

## RATINGS AND CHARACTERISTIC CURVES ( BAV70 )

FIG.1 - POWER ATTENUATION CURVE

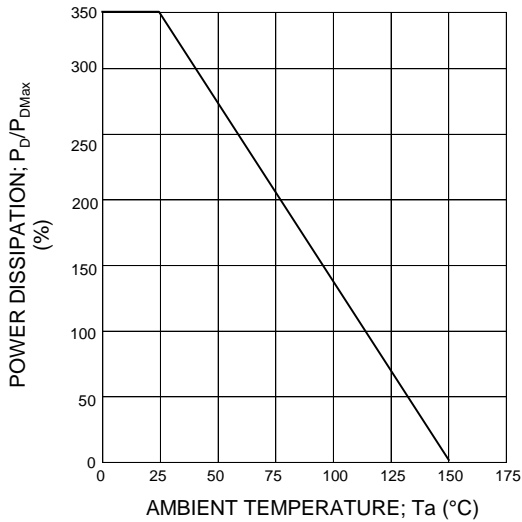


FIG.2 - CAPACITANCE BETWEEN TERMINALS CHARACTERISTICS

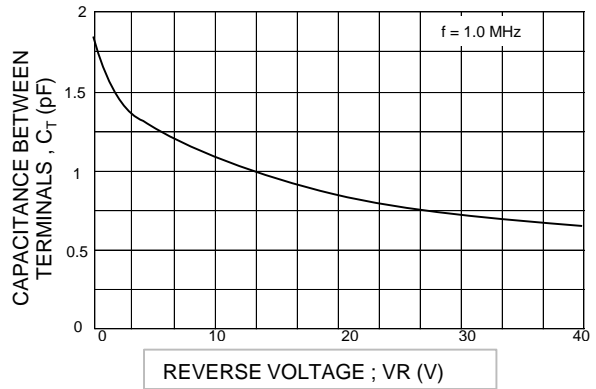


FIG.3 - FORWARD CHARACTERISTICS

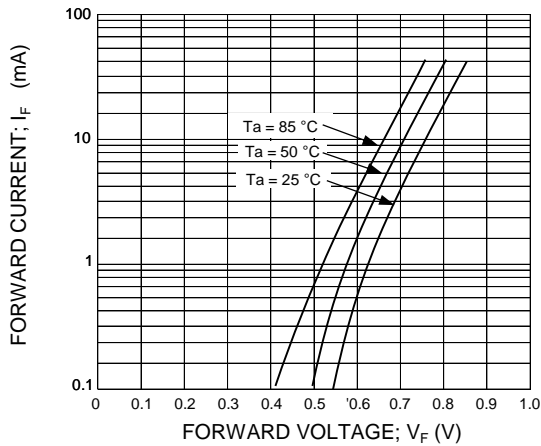


FIG.4 - REVERSE CHARACTERISTICS

