

BAV70

PRV : 75 Volts
Io : 200 mA

FEATURES :

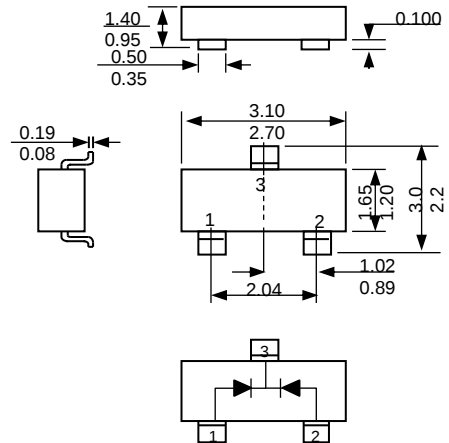
- * Small plastic SMD package
- * High switching speed : max. 4 ns
- * Repetitive peak reverse voltage : max. 75 V
- * **Pb / RoHS Free**

MECHANICAL DATA :

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

SMALL SIGNAL DIODE

SOT-23



Dimensions in millimeters

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 μ 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	$I_F = 1 mA$	V_F	-	-	715	mV
	$I_F = 10 mA$		-	-	855	mV
	$I_F = 50 mA$		-	-	1.0	V
Reverse Current	$V_R = 75 V$	I_R	-	-	2.5	nA
	$V_R = 25 V ; T_J = 150 ^\circ C$		-	-	30	μA
	$V_R = 75 V ; T_J = 150 ^\circ C$		-	-	50	
Total Capacitance	$f = 1 MHz$	C_T	-	-	2	pF
Reverse Recovery Time	$I_F = I_R = 10 mA$, to $I_{rr} = 1 mA$ $R_L = 50 \Omega$	T_{rr}	-	-	4	ns

RATINGS AND CHARACTERISTIC CURVES (BAV70)

FIG.1 - POWER ATTENUATION CURVE

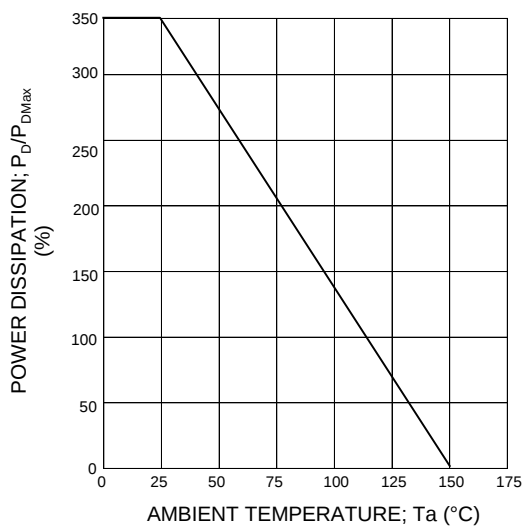


FIG.2 - CAPACITANCE BETWEEN
TERMINALS CHARACTERISTICS

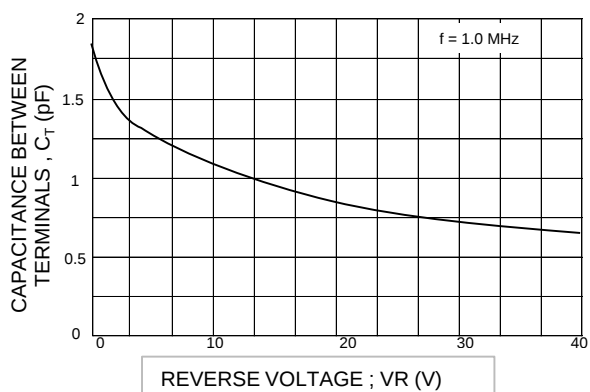


FIG.3 - FORWARD CHARACTERISTICS

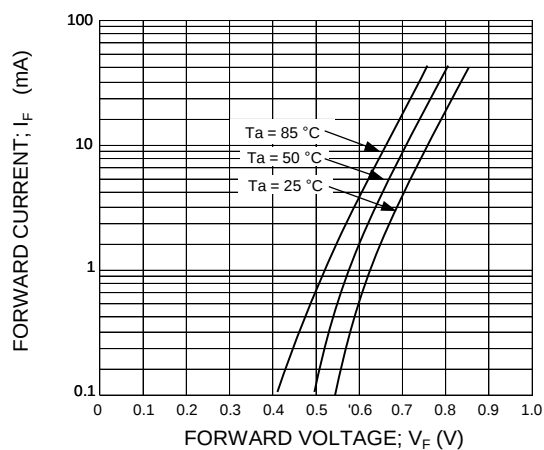


FIG.4 - REVERSE CHARACTERISTICS

