



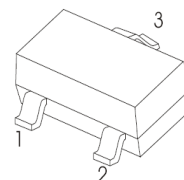
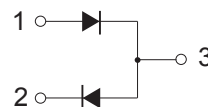
### BAV 199 SWITCHING DIODE

#### FEATURES

This Switching Diode has The Following Features:

Low Leakage Current Applications

Marking: JY



**SOT-23**

#### Maximum Ratings @Ta=25°C

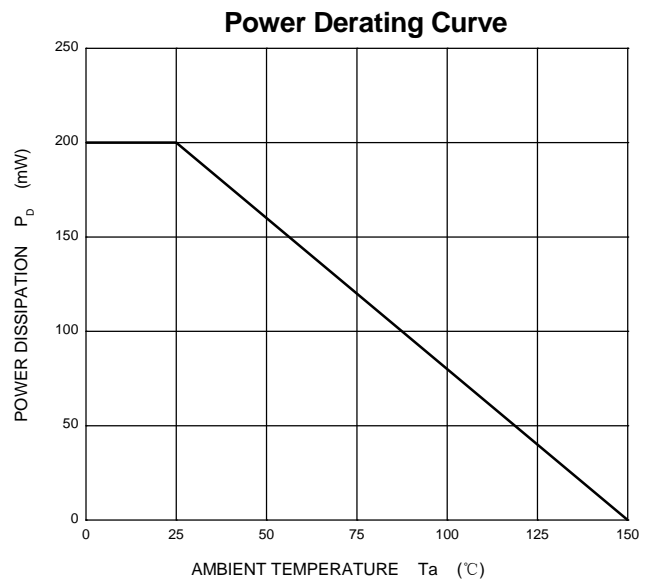
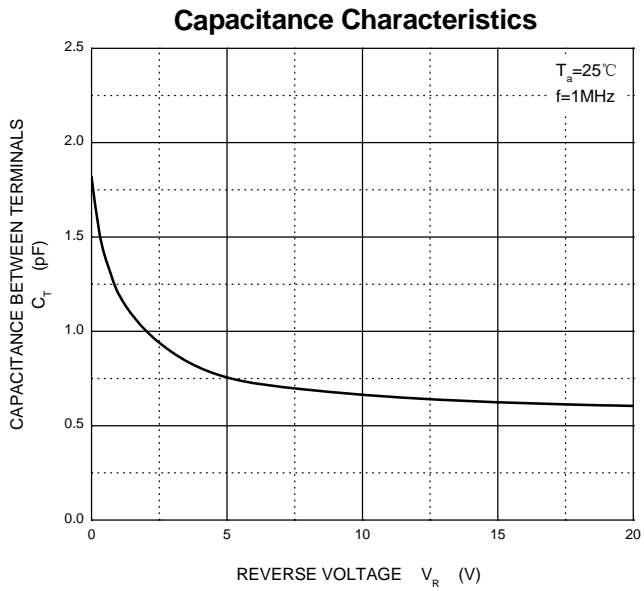
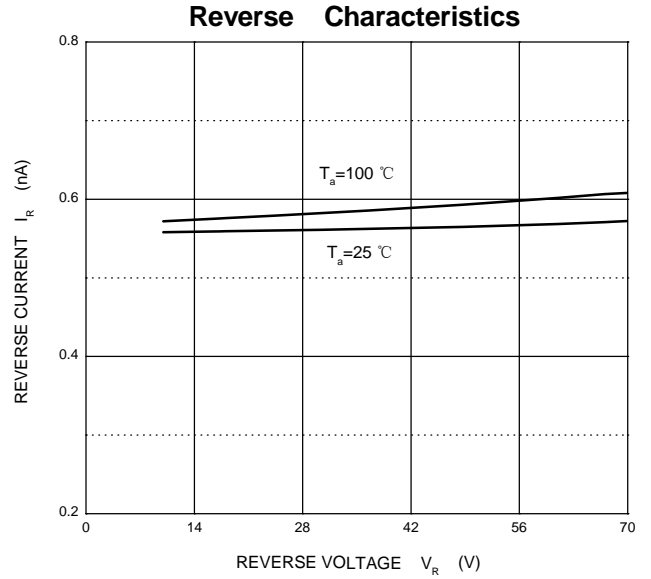
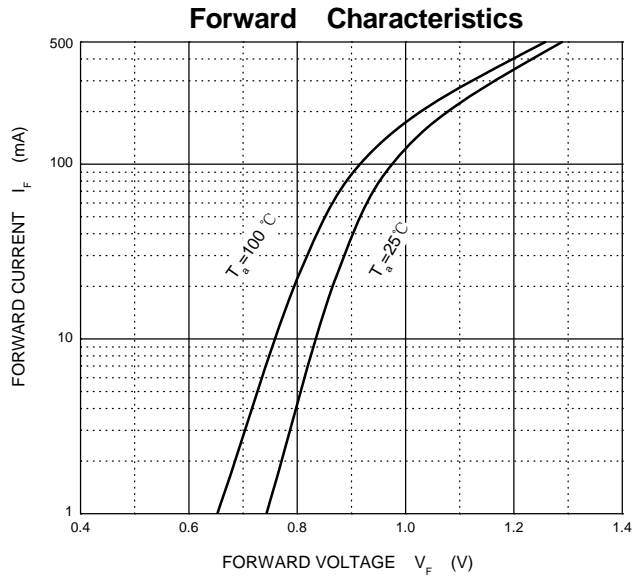
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	70	V
DC Blocking Voltage	$V_R$	70	V
Forward Continuous Current	$I_{FM}$	500	mA
Average Rectified Output Current	$I_O$	215	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	$I_{FSM}$	1.0	A
Power Dissipation	$P_D$	200	mW
Junction Temperature	$T_J$	150	°C
Storage Temperature Range	$T_{STG}$	-55~+150	°C

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

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 100\mu A$	70		V
Reverse voltage leakage current	$I_R$	$V_R = 70V$		5	nA
Forward voltage	$V_F$	$I_F = 1mA$ $I_F = 10mA$ $I_F = 50mA$ $I_F = 150mA$		900 1000 1100 1250	mV
Diode capacitance	$C_D$	$V_R = 0, f = 1MHz$		2	pF
Reverse recovery time	$t_{rr}$	$I_F = I_R = 10mA$		3	$\mu s$



## Typical Characteristics

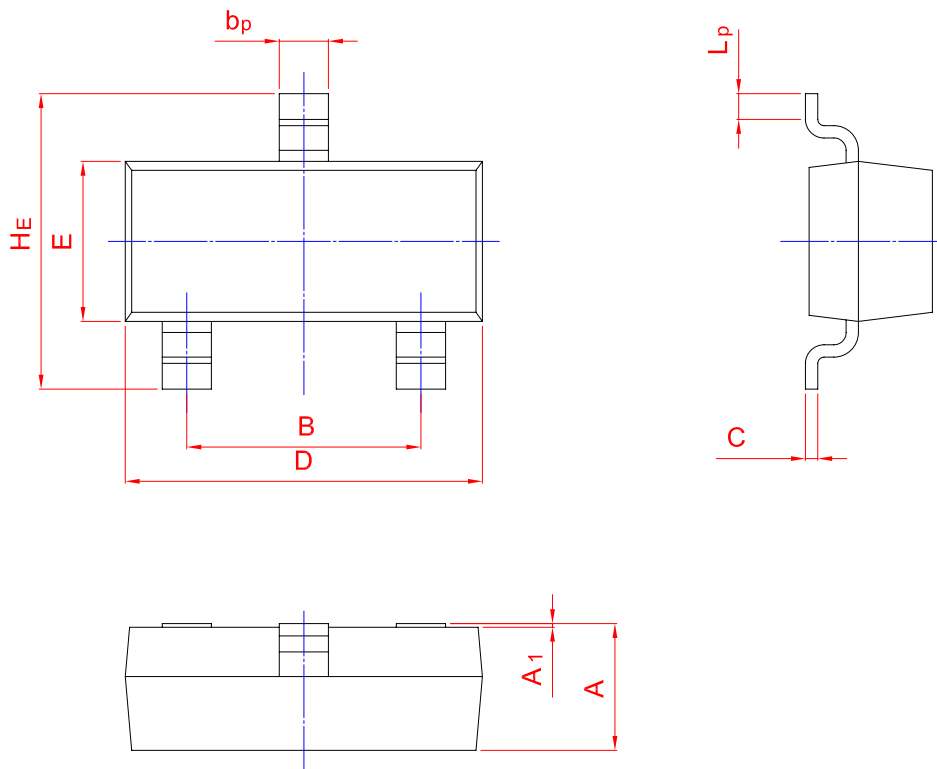
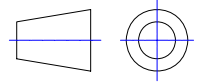




## PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	$b_p$	C	D	E	$H_E$	$A_1$	$L_p$
mm	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50
	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20