重庆平伟实业股份有限公司
CHONGQING PINGWEI ENTERPRISE CO.,LTD

BAV70

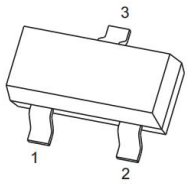
Switching Diode

FEATURE

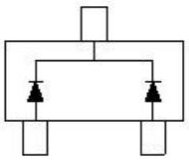
- Fast Switching Speed
- For General Purpose Switching Applictions
- High Conductance
- Low Current Leakage
- Small Outline Surface Mount Package
- RoHS compliant / Green EMC

MARKING: A4

SOT-23



Schematic diagram



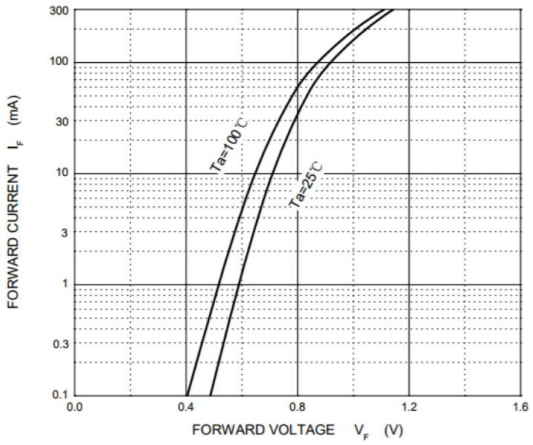
ABSOLUTE MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	75	V
Average Rectified Output Current	I_O	150	mA
Power Dissipation	P_{tot}	350	mW
Peak Forward Surge Current @t=1.0S Non-Repetitive	I_{FSM}	1.0	A
Junction Temperature	T_J	150	℃
Storage Temperature	T_{stg}	-55 to 150	℃
Thermal Resistance	R	357	℃/W

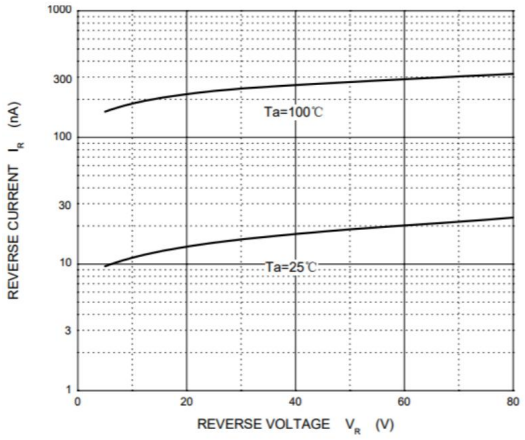
ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Forward Voltage	V_F	I_F=1mA			0.715	V
		I_F=10mA			0.855	V
		I_F=50mA			1.00	V
		I_F=150mA			1.25	V
Reverse breakdown voltage	V_R	I_R=100uA			4.0	nS
Reverse voltage leakage current	I_R	V_R=75V			2.5	uA
		V_R=75V Ta=150℃			50	uA
Typical Junction Capacitance	C_J	V_R=0V, f=1.0MHz			2	pF
Reverse recovery time	T_{rr}	I_F= 10mA,V_R=0V, R_L= 100Ω			4	nS

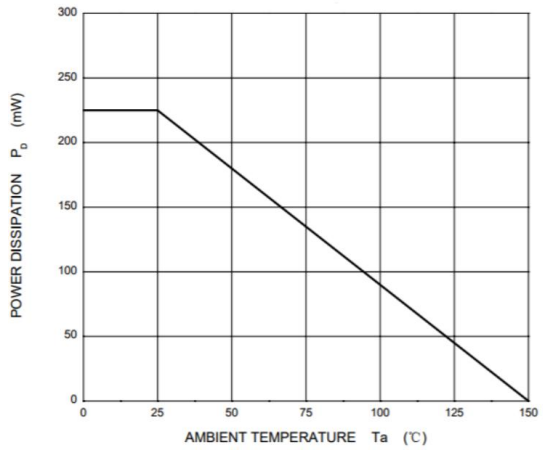
Typical Electrical



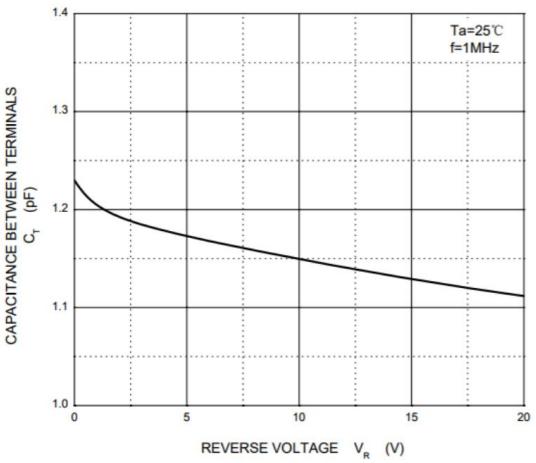
Forward Characteristics



Reverse Characteristics



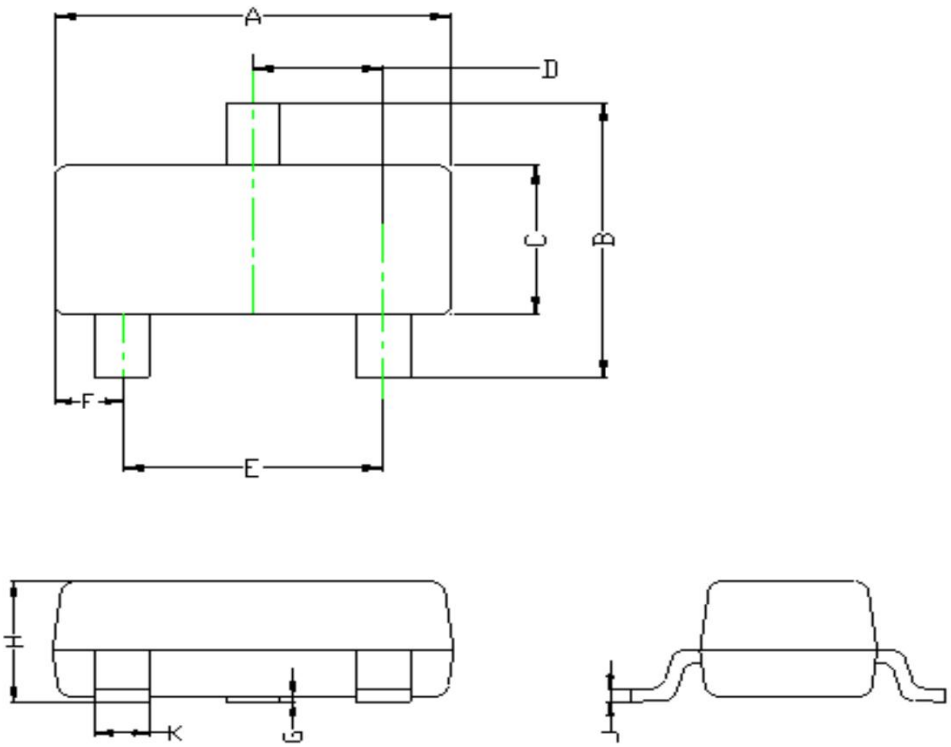
Power Derating Curve



CT vs VR

SOT-23 Package Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAV70	SOT23	Tape & Reel 3000pcs/7”Reel	8mm	4mm	Conductive	



Symbol	Dimensions In Millimeters		
	Min	Typ	Max
A	2.800	-	3.040
B	2.100	-	2.640
C	1.200	-	1-400
D	0.890	-	1.030
E	1.780	-	2.050
F	0.450	-	0.600
G	0.013	-	0.100
H	0.900	-	1.110
J	0.090	-	0.180
K	0.370	-	0.510

1.Unit mm