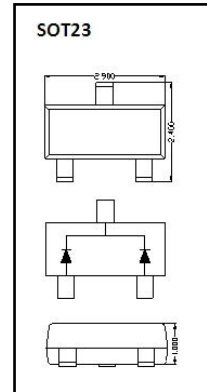


DATA SHEET

BAV70

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

Device Marking Code	
BAV70	A4



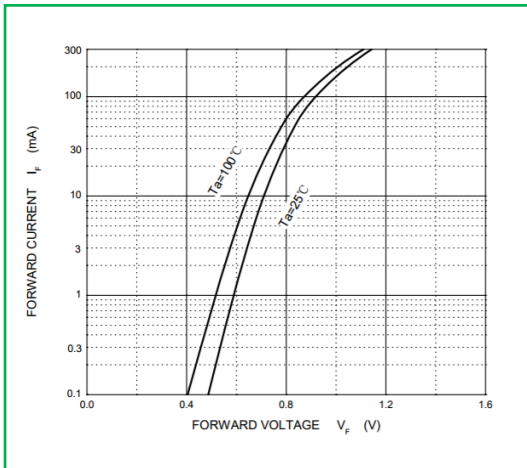
MAXIMUM RATINGS (Ta = 25 °C)

Symbol	Parameter	Value	Units
V _R	Reverse Voltage	75	V
I _o	Average Rectified Output Current	150	mA
P _{tot}	Power Dissipation	350	mW
I _{FSM}	Peak Forward Surge Current @t=1.0S Non-Repetitive	1.0	A
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55 to 150	°C
R	Thermal Resistance	357	°C/W

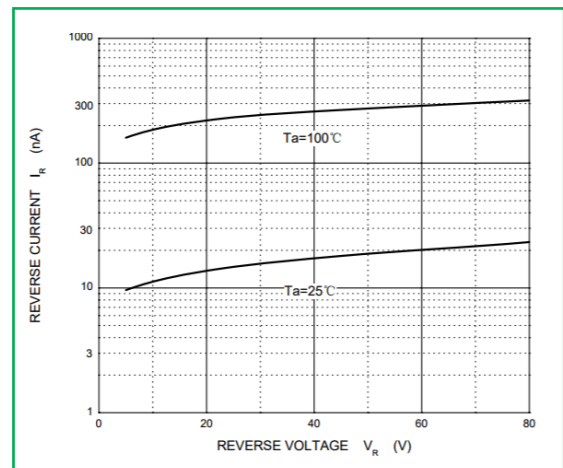
ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Symbol	Parameter	Test Conditions	Min	Max	Units
V _F	Forward Voltage	I _F =1mA		0.715	V
		I _F =10mA		0.855	
		I _F =50mA		1.00	
		I _F =150mA		1.25	
V _R	Reverse breakdown voltage	I _R =100uA	75		V
I _R	Reverse voltage leakage current	V _R =75V		2.5	uA
		V _R =75V Ta=150°C		50	uA
C _J	Typical Junction Capacitance	V _R =0V, f=1.0MHz		2	pF
T _{rr}	Reverse recovery time	I _F =10mA, V _R =0V, R _L =100Ω		4	nS

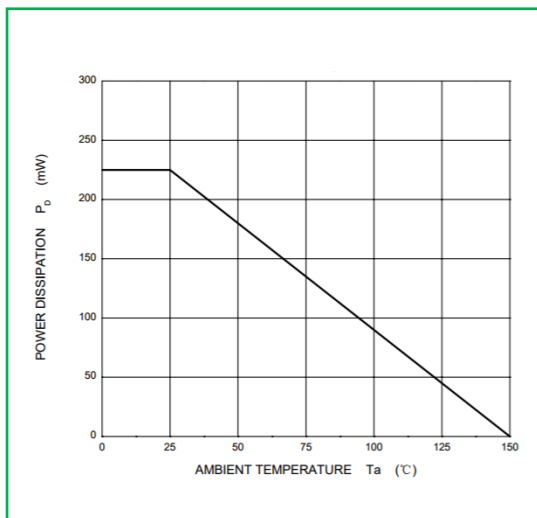
Typical Characteristics



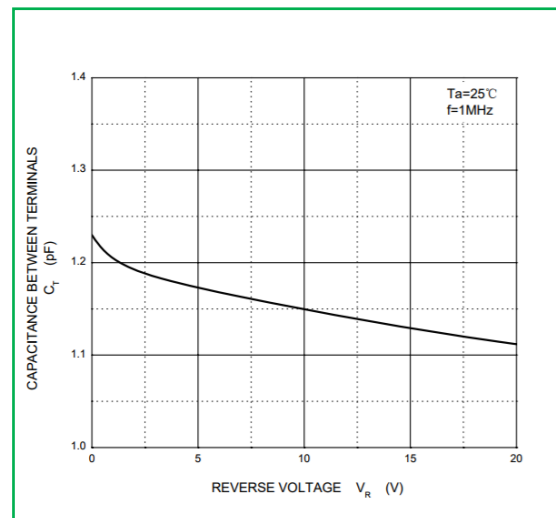
Forward Characteristics



Reverse Characteristics



Power Derating Curve



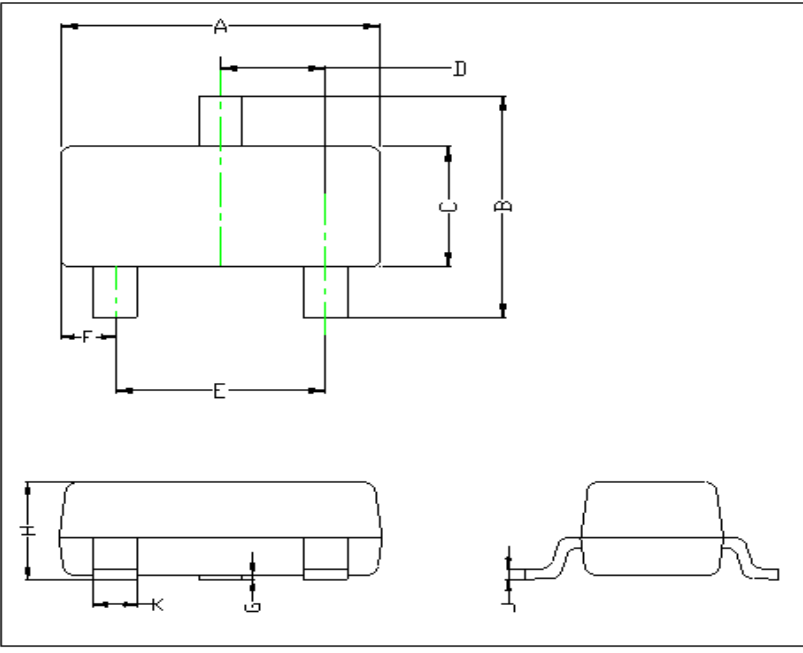
CT vs VR

ORDERING INFORMATION

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

PACKAGE DIMENSIONS

Package Outline : SOT23



Symbol	Dimensions in mm	
	Min.	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

SOT23 Package Outline

Note:
 1. Halogen free ,EMC
 2. Pb free solder
 3: Lead thickness solder plating
 4. Lead frame CAC-5
 5. Other Tolerance ± 0.05
 6. Dimensions are exclusive of Burrs Mold Flash and Tie Bar extrusions
 7. Unit :mm

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