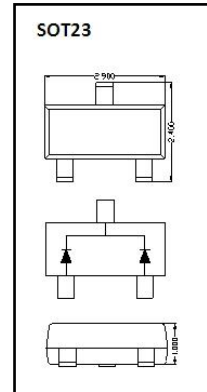


DATA SHEET

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



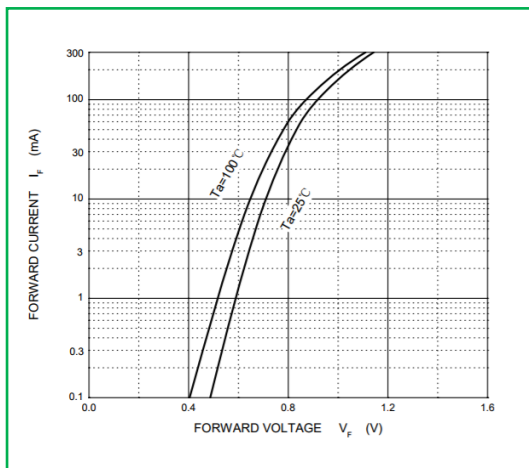
MAXIMUM RATINGS (T_a = 25 °C)

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

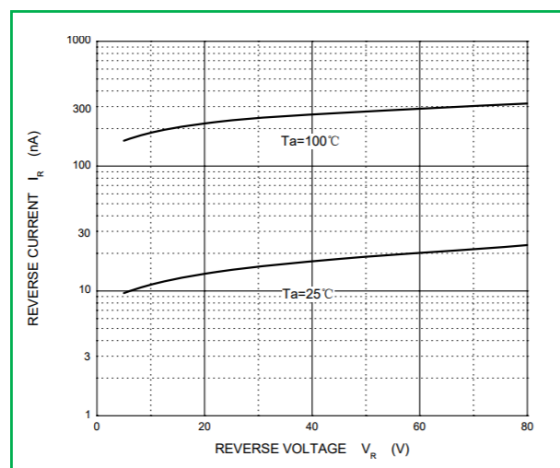
ELECTRICAL CHARACTERISTICS (T_a = 25 °C)

Symbol	Parameter	Test Conditions	Min	Max	Units
V _F	Forward Voltage	I _F =1mA I _F =10mA I _F =50mA I _F =150mA		0.715 0.855 1.00 1.25	V
V _R	Reverse breakdown voltage	I _R =100uA	75		V
I _R	Reverse voltage leakage current	V _R =75V V _R =75V T _a =150°C		2.5 50	uA 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

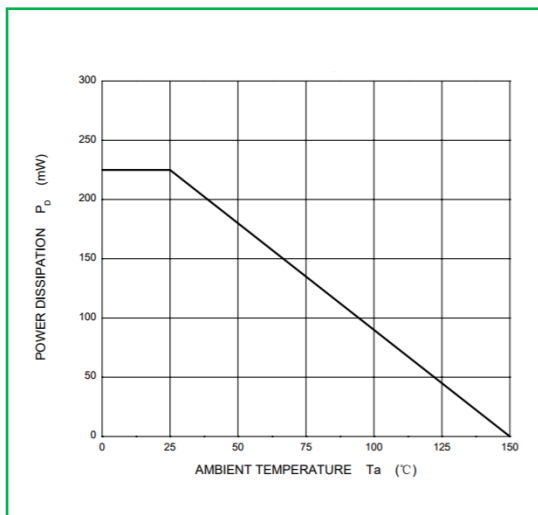
Typical Characteristics



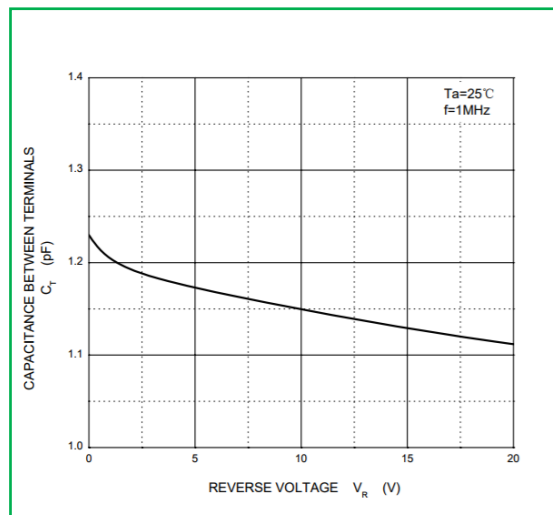
Forward Characteristics



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

