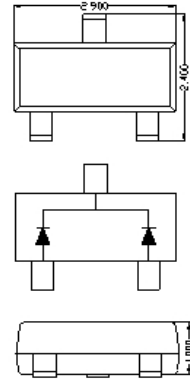


**BAV70**

- ◇ 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	
<b>BAV70</b>	<b>A4</b>

**SOT23**

**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)**

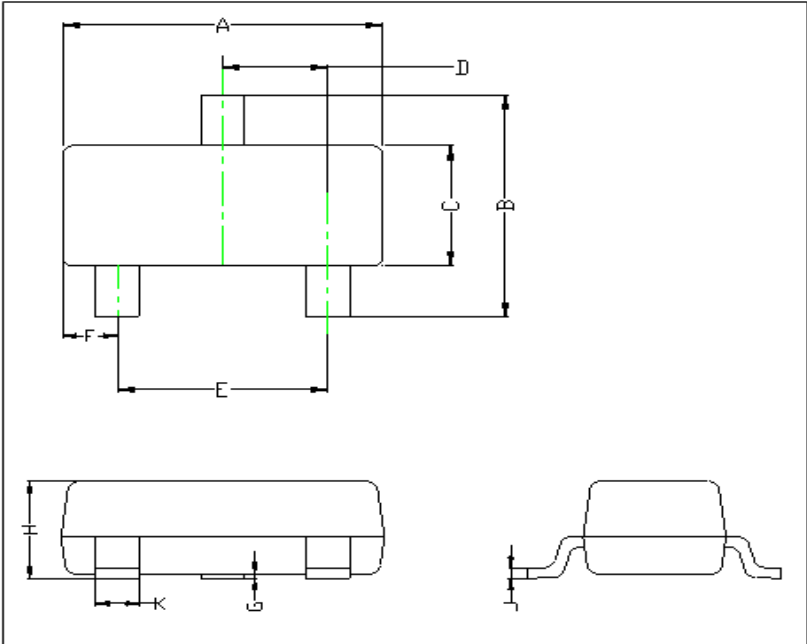
Symbol	Parameter	Test Conditions	Min	Max	Units
$V_F$	Forward Voltage	$I_F=10mA$		0.855	V
$V_R$	Reverse breakdown voltage	$I_R=100\mu A$	75		V
$I_R$	Reverse voltage leakage current	$V_R=75V$		2.5	$\mu A$
		$V_R=75V$ $T_a=150^\circ C$		50	$\mu A$
$C_J$	Typical Junction Capacitance	$V_R=0V$ , $f=1.0MHz$		2	pF
$T_{rr}$	Reverse recovery time	$I_F=10mA$ , $V_R=0V$ , $R_L=100\ \Omega$		4	nS

**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  $\pm 0.05$   
 6. Dimensions are exclusive of Burrs Mold Flash and Tie Bar extrusions  
 7. Unit : mm

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