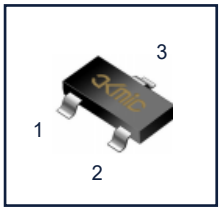
BAV70

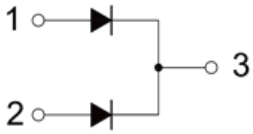
SOT-23 Plastic-Encapsulate Switching Diodes

Features

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance



SOT23



Equivalent Circuit

Absolute Maximum Ratings(T_A=25℃)

Symbol	Parameter	Value	Uniat
V_R	Reverse Voltage	70	V
I_F	Forward Current	200	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @t=8.3ms	2.0	A
P_d	Power Dissipation	225	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	556	℃/W
$R_{\theta JC}$	Thermal Resistance Junction to Case	26	℃/W
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

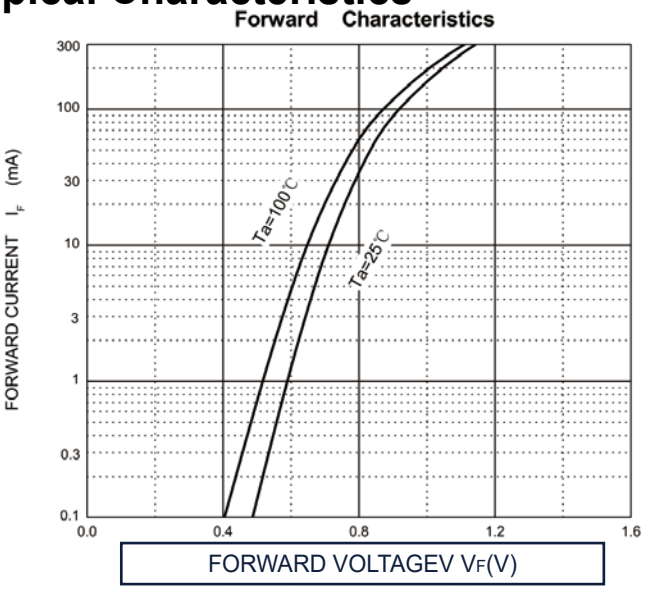
Electrical Characteristics (T_A=25℃ unless otherwise specified)

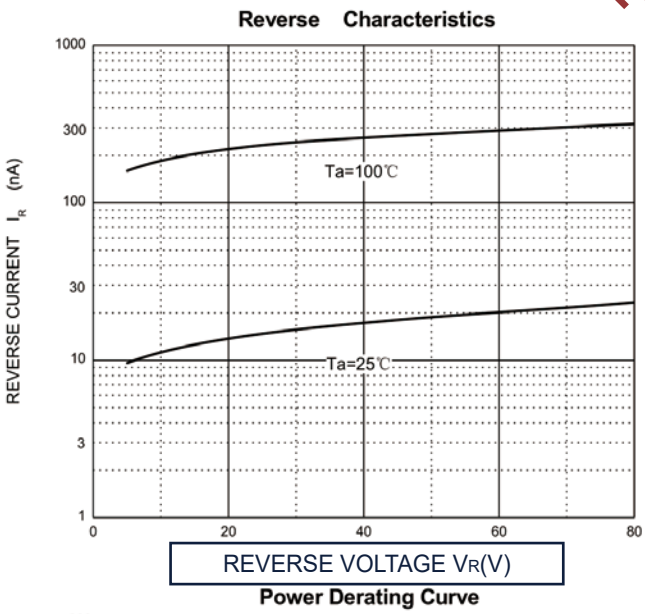
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V_R	Reverse breakdown voltage	I_R=100μA	70			V
V_{F1}	Forward voltage	I_F=1mA			0.715	V
V_{F2}		I_F=10mA			0.855	V
V_{F3}		I_F=50mA			1.0	V
V_{F4}		I_F=150mA			1.25	V
I_R	Reverse current	V_R=70V			2.5	μA
C_T	Capacitance between terminals	V_R=0V, f=1MHz			1.5	pF
t_{rr}	Reverse recovery time	I_F=I_R=10mA,Irr=0.1XI_R,R_L=100Ω			6	nS

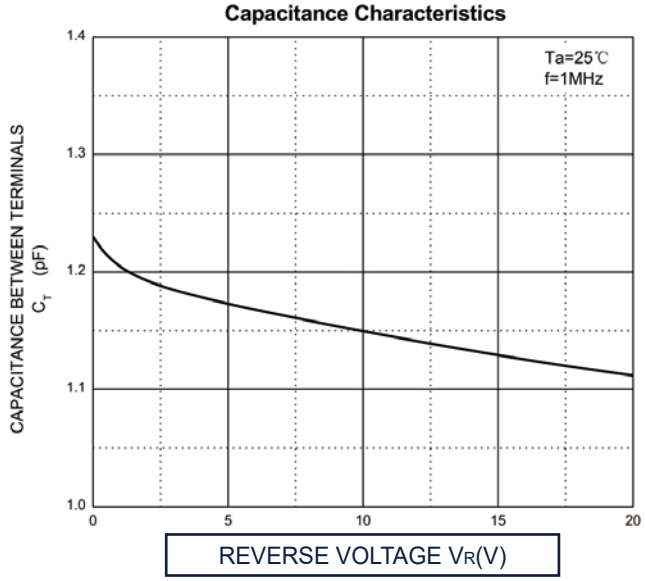
Ordering information

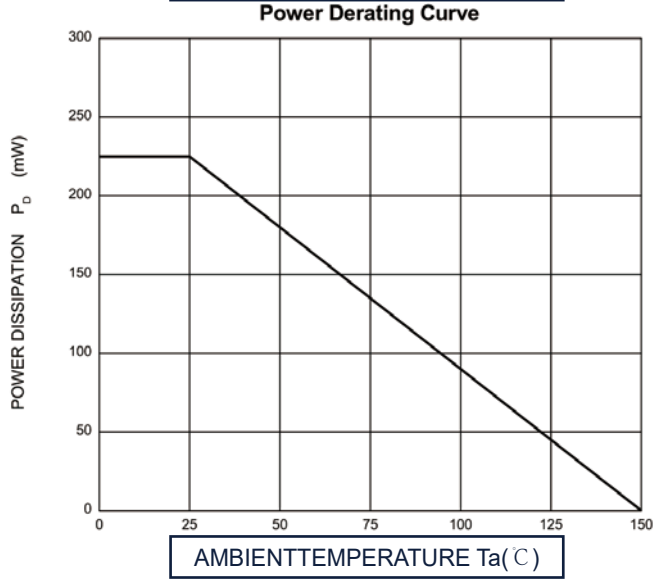
Product ID	Marking	Naming rule	Pack	Qty(PCS)
BAV70	A4	BAV70 产品名称 product name	SOT23	3000

Typical Characteristics

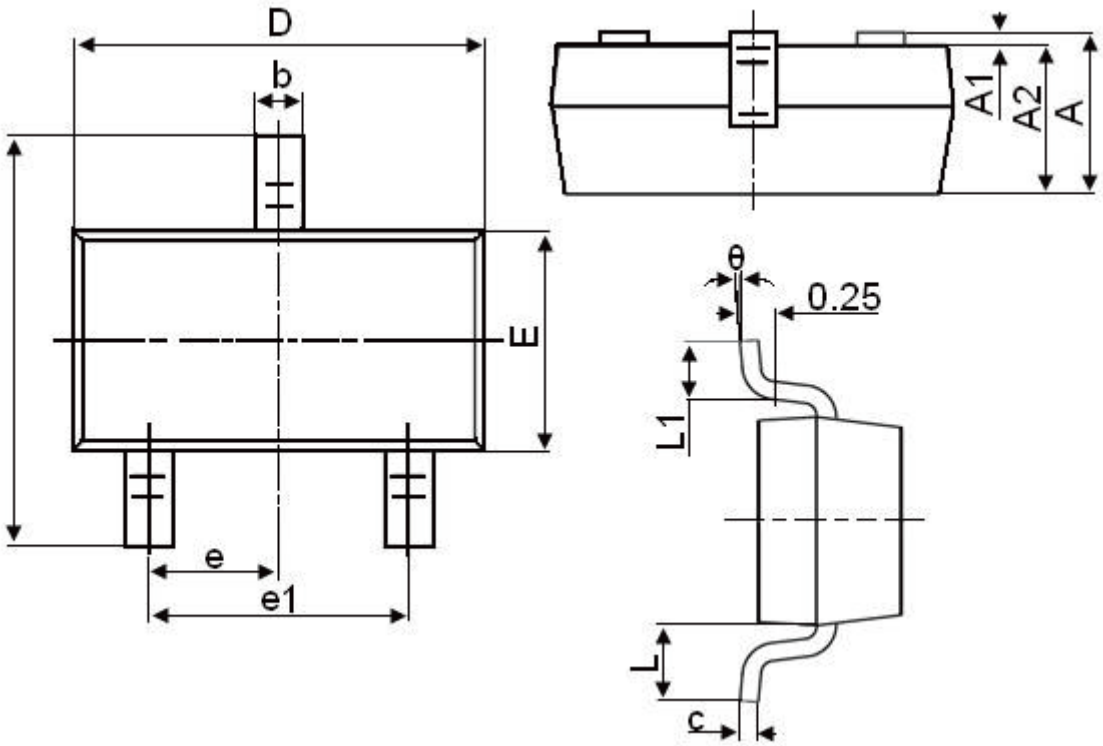








SOT23 Package Outline Dimensions



Symbol	Dimensions in Millimeters	
	mm	
	Min	Max
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°