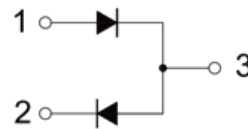


Features

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



SOT23



Equivalent Circuit

Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

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

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

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

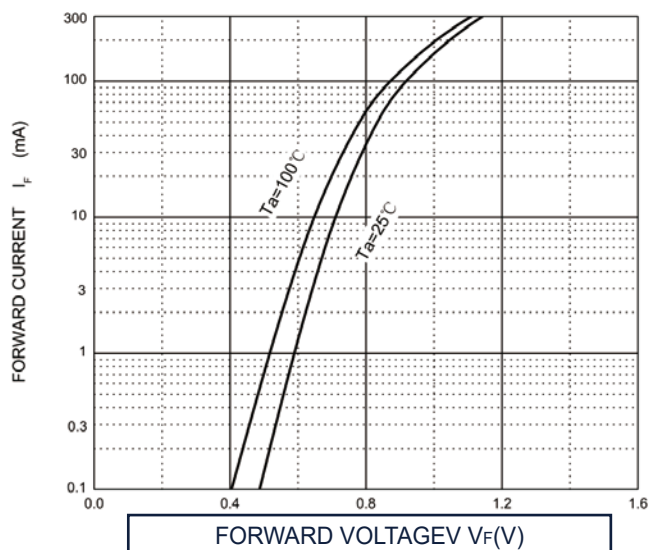
Ordering information

Product ID	Marking	Naming rule	Pack	Qty(PCS)
BAV99	A7	BAV99 ↓ 产品名称 product name	SOT23	3000

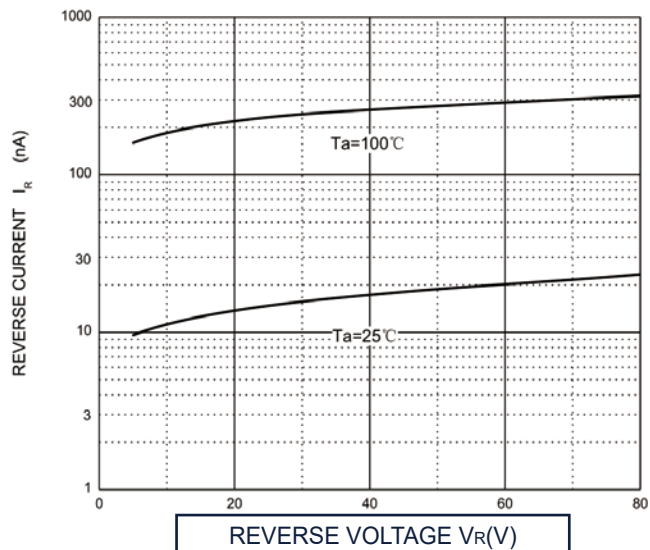


Typical Characteristics

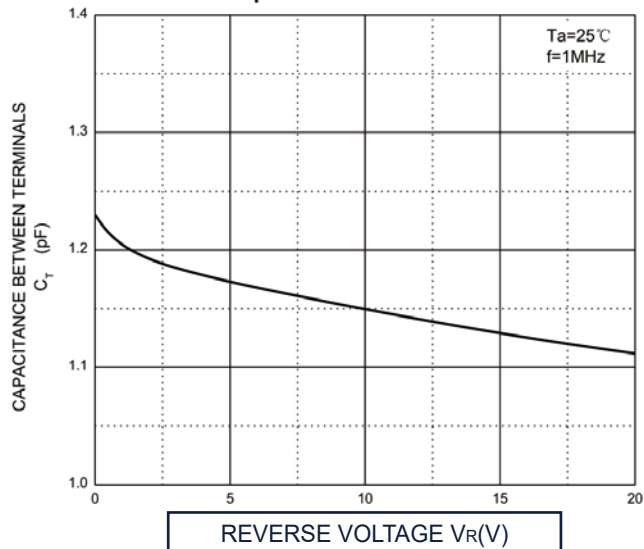
Forward Characteristics



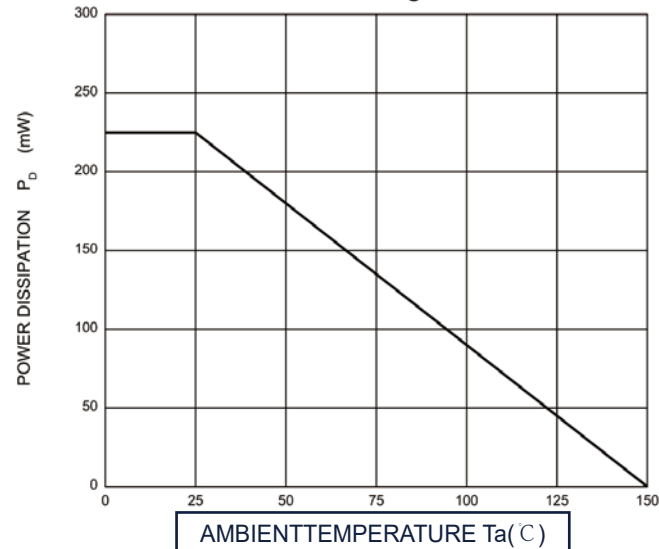
Reverse Characteristics



Capacitance Characteristics

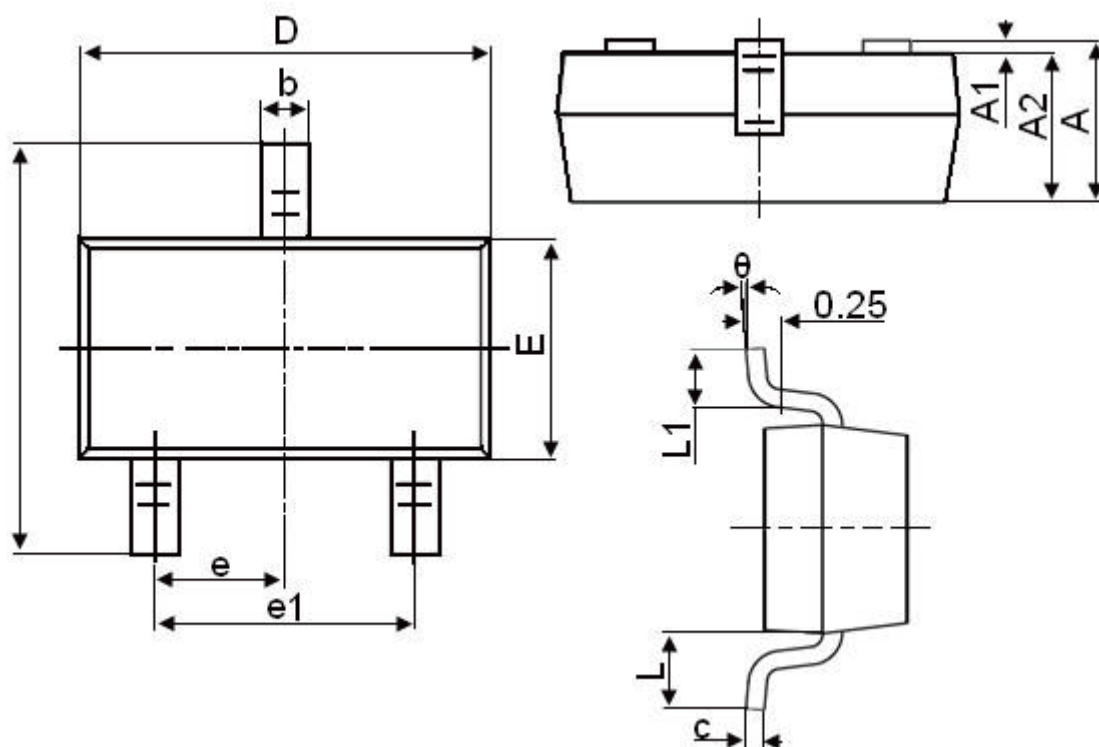


Power Derating Curve





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°