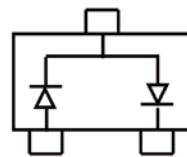


Features

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



SOT-523



Equivalent Circuit

Absolute Maximum Ratings(T_A=25℃)

Symbol	Parameter	Value	Unit
V _R	DC Blocking Voltage	85	V
I _O	Forward current	75	mA
P _D	Forward power dissipation	150	mW
T _J	Operating Junction Temperature Range	150	℃
T _{stg}	Storage Temperature Range	-55~+150	℃

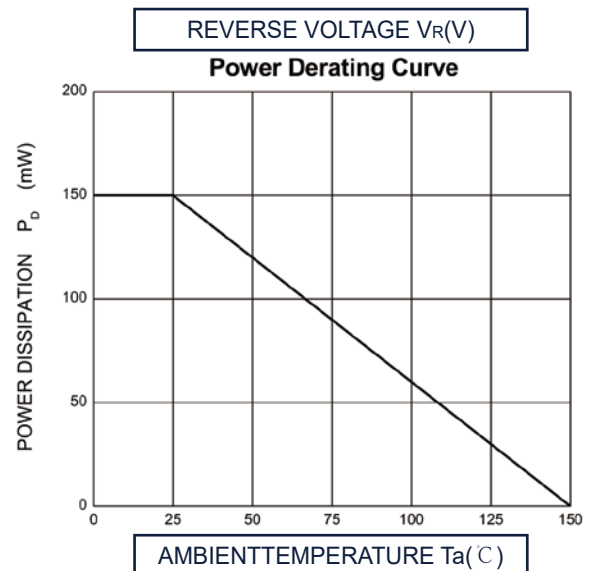
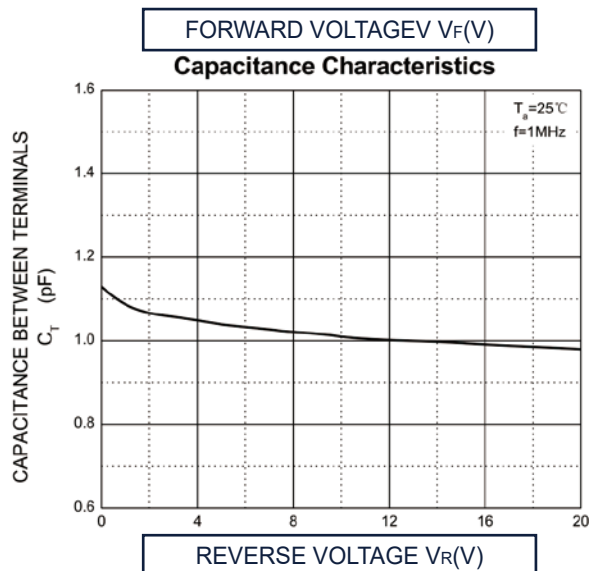
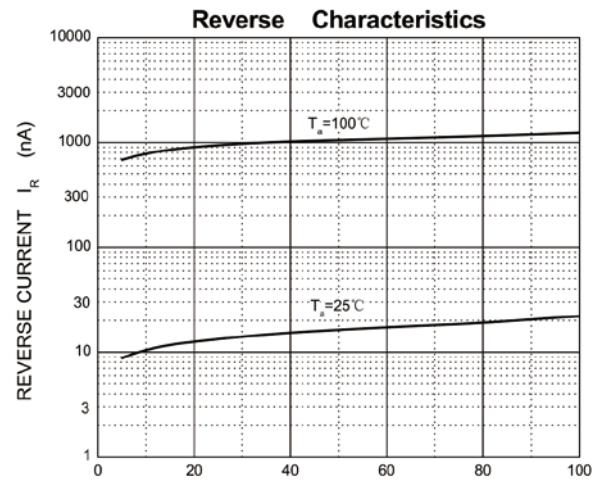
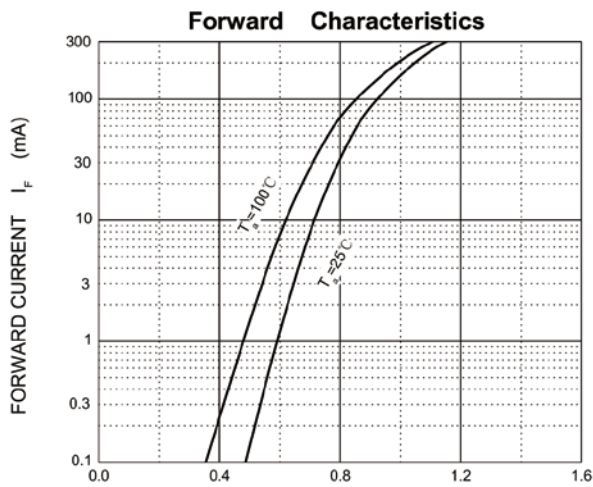
Electrical Characteristics (T_A=25℃ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _(BR)	Reverse breakdown voltage	I _R =1μA	85			V
I _{R1}	Reverse voltage leakage current	V _R =75V			2	μA
I _{R2}		V _R =25V			0.03	μA
V _F	Forward voltage	I _F =1mA			715	mV
		I _F =10mA			855	
		I _F =50mA			1000	
		I _F =150mA			1250	
C _D	Diode capacitance	V _R =0V, f=1MHz			1.5	pF
t _{rr}	Reverse recovery time	I _F =I _R =10mA, I _{rr} =0.1×I _R , R _L =100Ω			4	ns

Ordering information

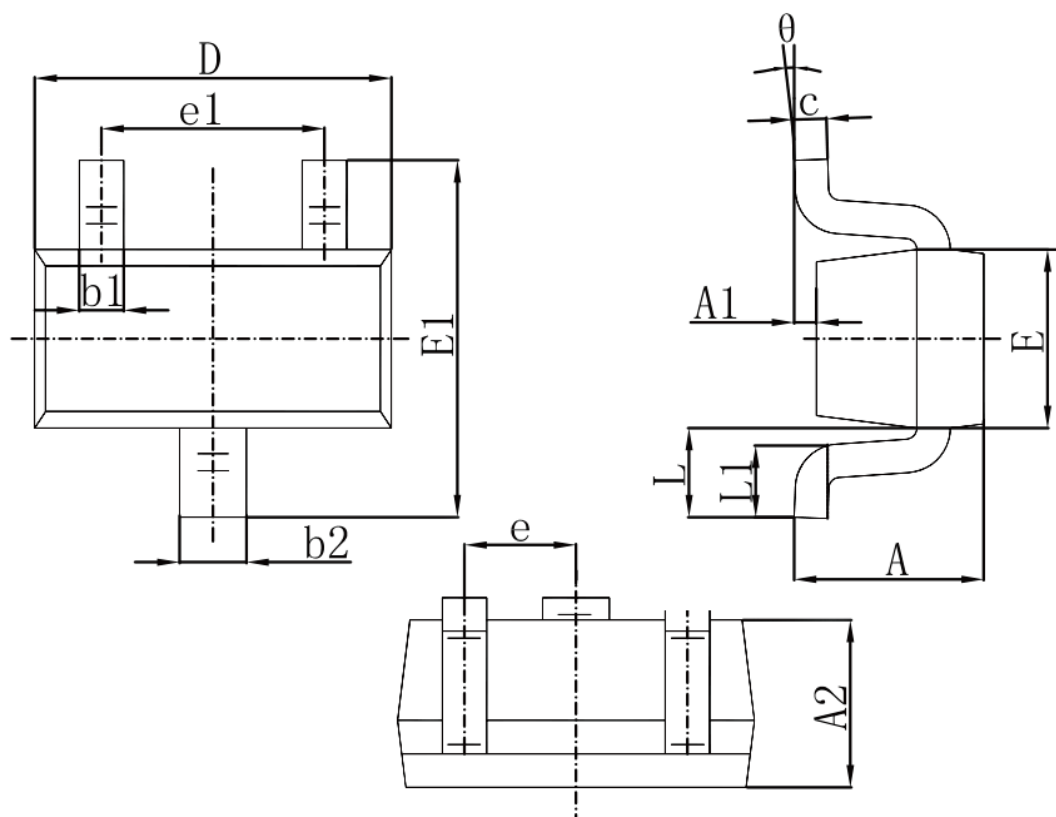
Product ID	Marking	Naming rule	Pack	Qty(PCS)
BAV99T	JE	BAV99T 封装标识 Packaging label 产品名称 product name BAV99T	SOT-523	3000
	A7			

Typical Characteristics





SOT-523 Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.700	0.900	0.028	0.035
A1	0.000	0.100	0.000	0.004
A2	0.700	0.800	0.028	0.031
b1	0.150	0.250	0.006	0.010
b2	0.250	0.350	0.010	0.014
c	0.100	0.200	0.004	0.008
D	1.500	1.700	0.059	0.067
E	0.700	0.900	0.028	0.035
E1	1.450	1.750	0.057	0.069
e	0.500 TYP.		0.020 TYP.	
e1	0.900	1.100	0.035	0.043
L	0.400 REF.		0.016 REF.	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°