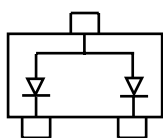


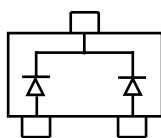
Plastic-Encapsulate Diodes

FEATURES

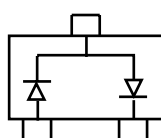
- ♦Fast Switching Speed
- ♦For General Purpose Switching Applications
- ♦High Conductance



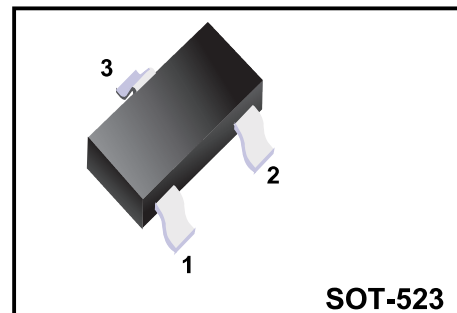
BAW56T



BAV70T



BAV99T



SOT-523

Marking Code

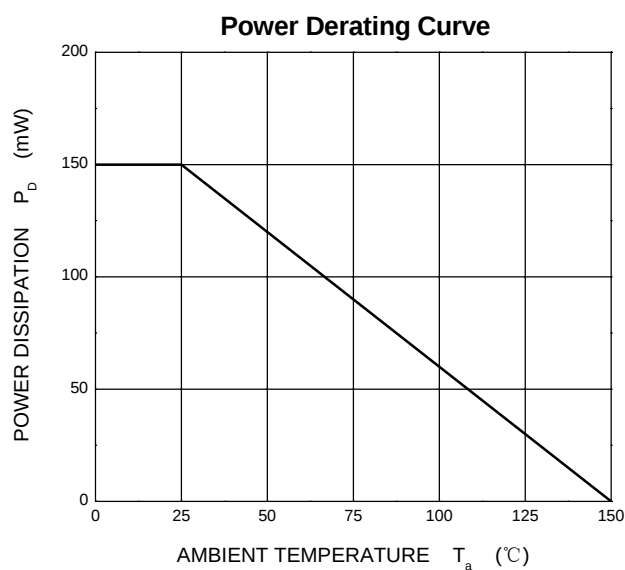
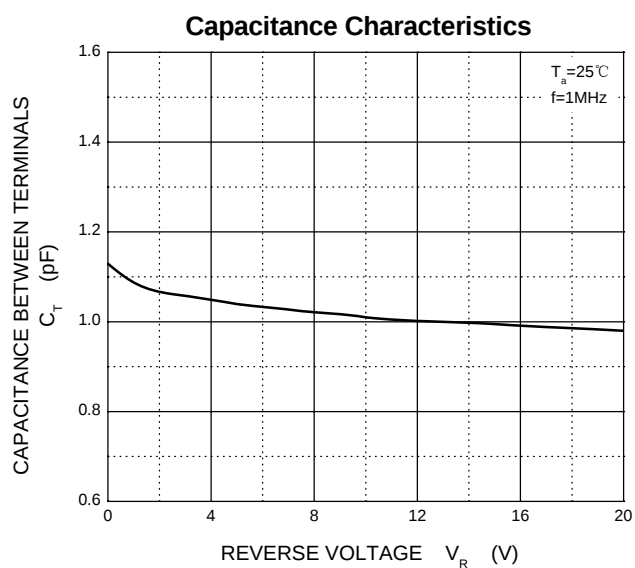
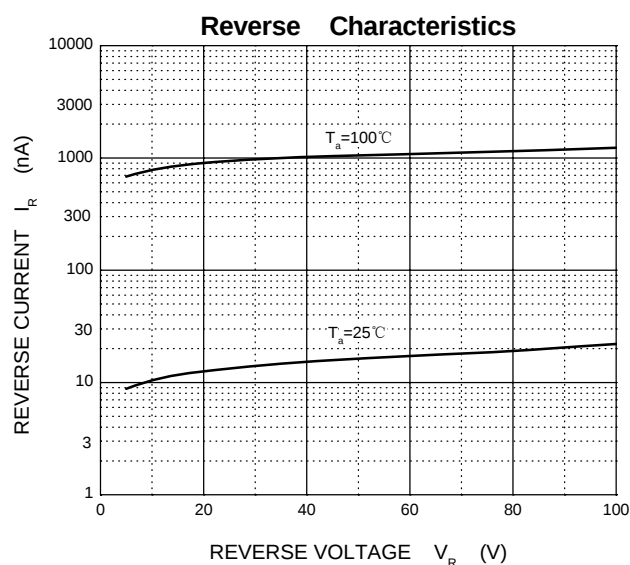
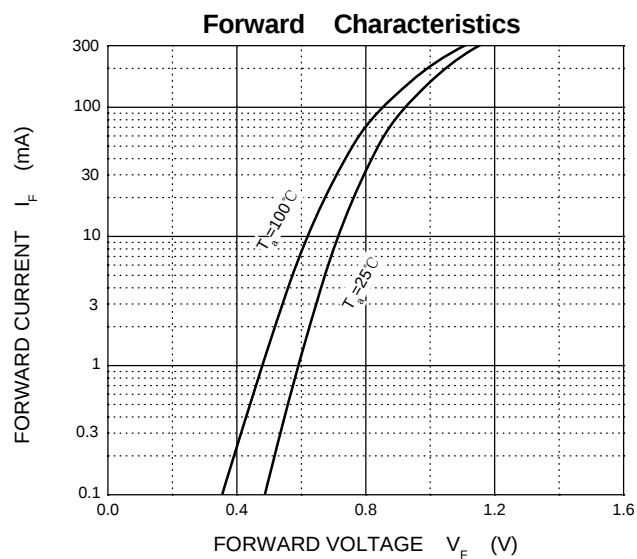
BAW56T	A1
BAV70T	A4
BAV99T	A7

Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
Reverse voltage	V_R	85	V
Forward current	I_O	75	mA
Forward power dissipation	P_D	150	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=1\mu A$	85		V
Reverse voltage leakage current	I_{R1}	$V_R=75V$		2	μA
	I_{R2}	$V_R=25V$		0.03	μA
Forward voltage	V_F	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$		715 855 1000 1250	mV
Diode capacitance	C_D	$V_R=0$ $f=1MHz$		1.5	pF
Reverse recovery time	t_{rr}	$I_F=I_R=10mA$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$		4	ns



Ordering information

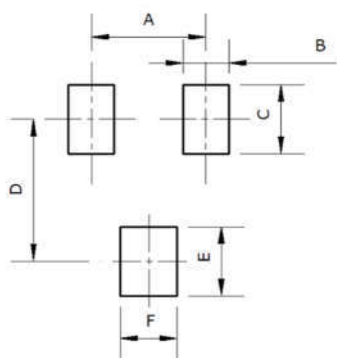
Package	Packing Description	Base Quantity	Packing Quantity
SOT-523	Tape/Reel, 7" reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-523

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	1.50	1.70	59	67
B	0.75	0.85	30	33
C	1.45	1.75	57	69
D	0.50TYP		0.020TYP	
E	0.90	1.10	35	43
G	0.00	0.10	0	4
H	0.60	0.80	24	31
J	0.10	0.20	4	8
K	0.15	0.35	6	14
L	0.26	0.46	10	18

The recommended mounting pad size



Millimeter (mm)	
Dim.	TYP
A	1.00
B	0.40
C	0.60
D	1.24
E	0.60
F	0.50

Disclaimer

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