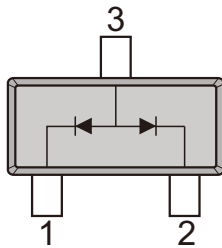




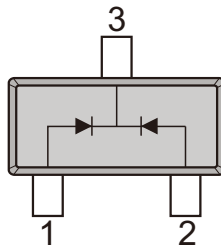
Switching Diodes

FEATURES

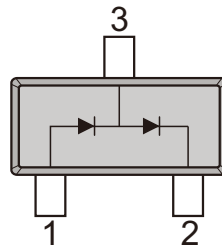
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance



BAW56WG



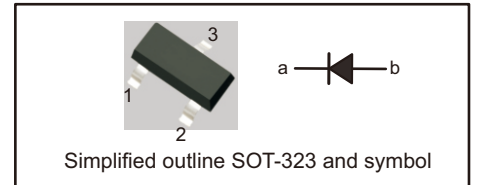
BAV70WG



BAV99WG

PINNING

PIN	DESCRIPTION
a	Cathode
b	Anode



Maximum Ratings @Ta=25°C

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	100	V
Reverse Voltage	V_R	100	V
Forward Current	I_F	200	mA
Non-Repetitive Peak Forward Surge Current @t=1ms	I_{FSM}	1.0	A
Power Dissipation	P_D	225	mW
Thermal Resistance Junction to Ambient	R_{thJA}	556	°C/W
Operation Junction and Storage Temperature Range	T_J, T_{STG}	-55 ~ +150	°C

Electrical Characteristics @Ta=25°C

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



Fig.1 Power Derating Curve

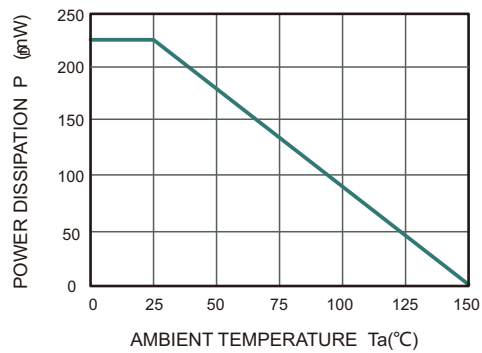


Fig.2 Reverse Characteristics

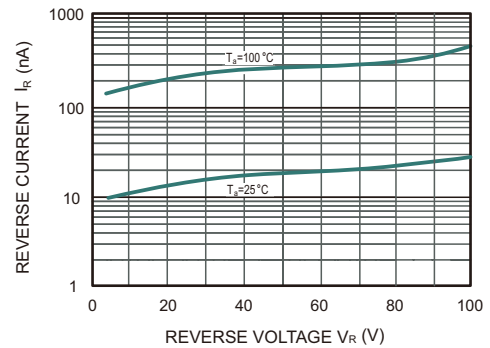


Fig.3 Forward Characteristics

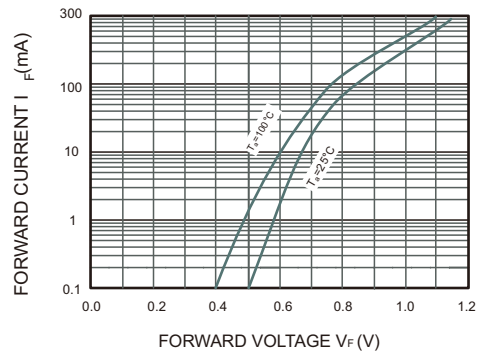
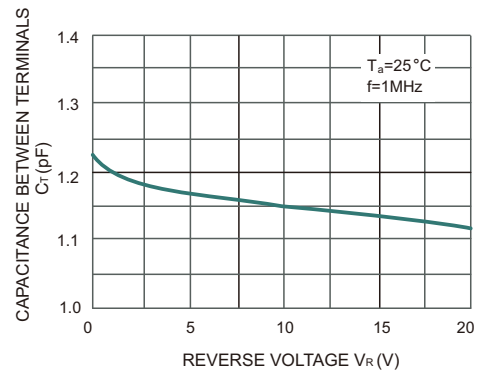
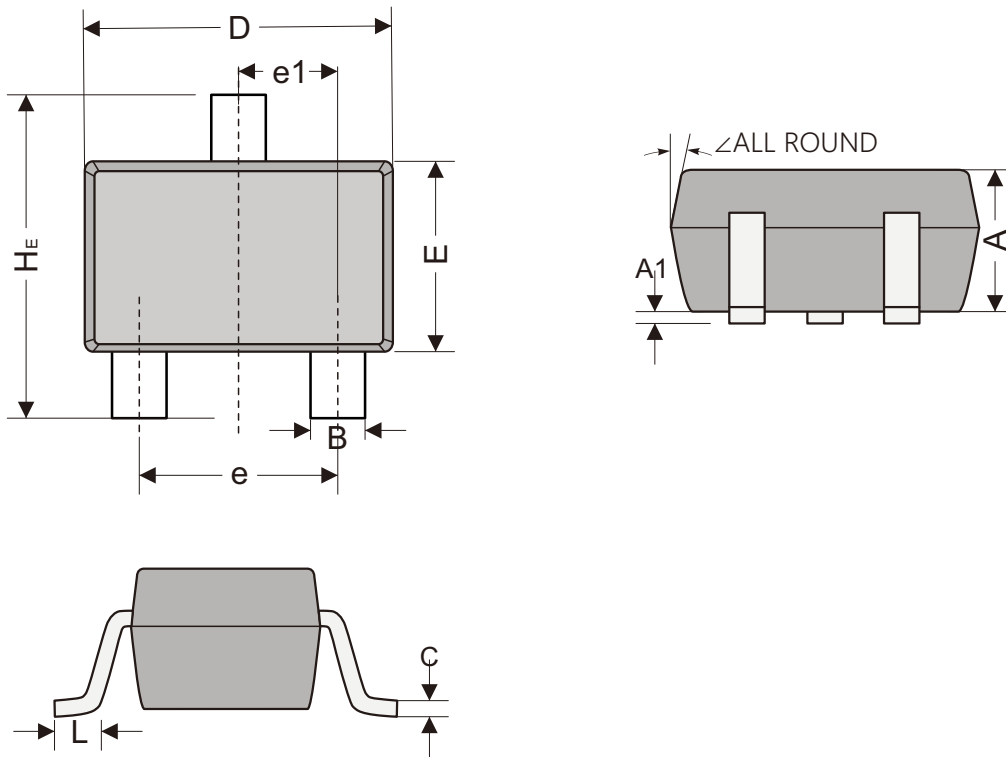


Fig.4 Capacitance Characteristics





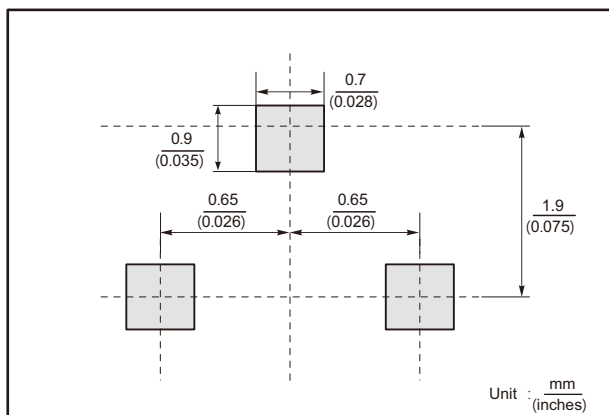
SOT-323 Package Outline Dimensions



SOT-323 mechanical data

UNIT		A	A1	B	C	D	E	e	e1	L	HE
mm	max	1.00	0.10	0.40	0.25	2.20	1.35	1.40	0.65 (BSC)	0.425 REF	2.40
	min	0.80	0.00	0.30	0.10	1.80	1.15	1.20			2.00
mil	max	39.37	3.94	15.75	9.84	86.61	53.15	55.12	25.59 (BSC)	16.73 REF	94.49
	min	31.50	0.00	11.81	3.94	70.87	45.28	47.24			78.74

The recommended mounting pad size



Marking

Type number	Marking code
BAW56WG	B56
BAV70WG	B70
BAV99WG	B99



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