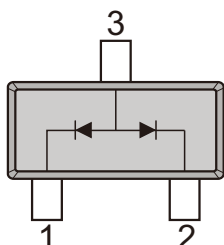




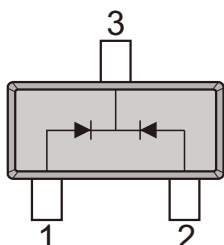
Switching Diodes

FEATURES

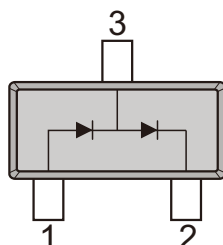
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance



BAW56WG



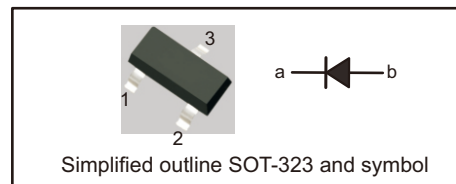
BAV70WG



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	70	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 _R	I _R =100μA	70			V
Forward voltage	V _{F1}	I _F =1 mA			0.715	V
	V _{F2}	I _F =10mA			0.855	V
	V _{F3}	I _F =50mA			1	V
	V _{F4}	I _F =150 mA			1.25	V
Reverse current	I _R	V _R =70V			2.5	uA
Capacitance between terminals	C _T	V _R =0, f=1MHz			1.5	pF
Reverse recovery time	t _{rr}	I _F =I _R =10mA, I _{rr} =0.1×I _R , R _L =100Ω			6	ns



Fig.1 Power Derating Curve

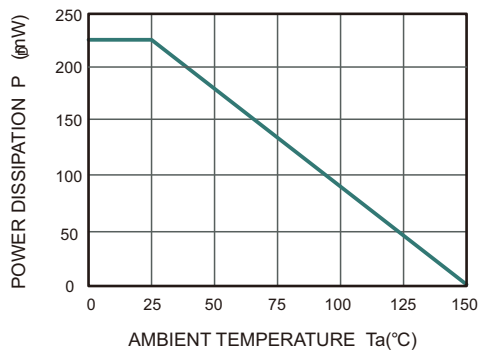


Fig.2 Reverse Characteristics

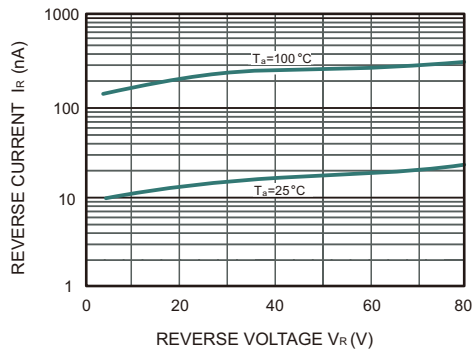


Fig.3 Forward Characteristics

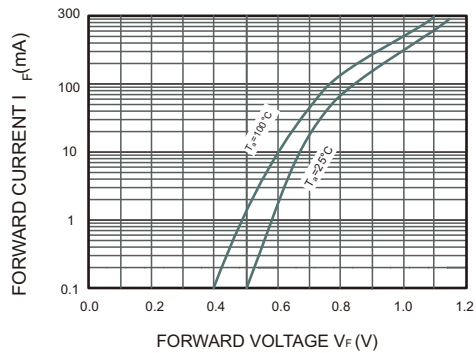
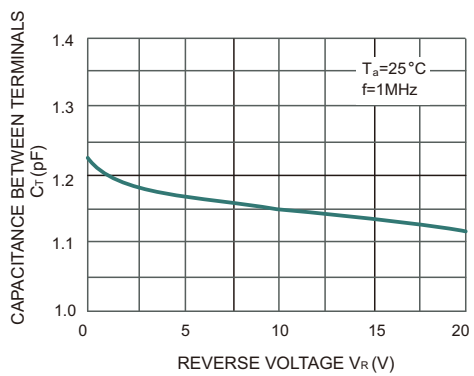
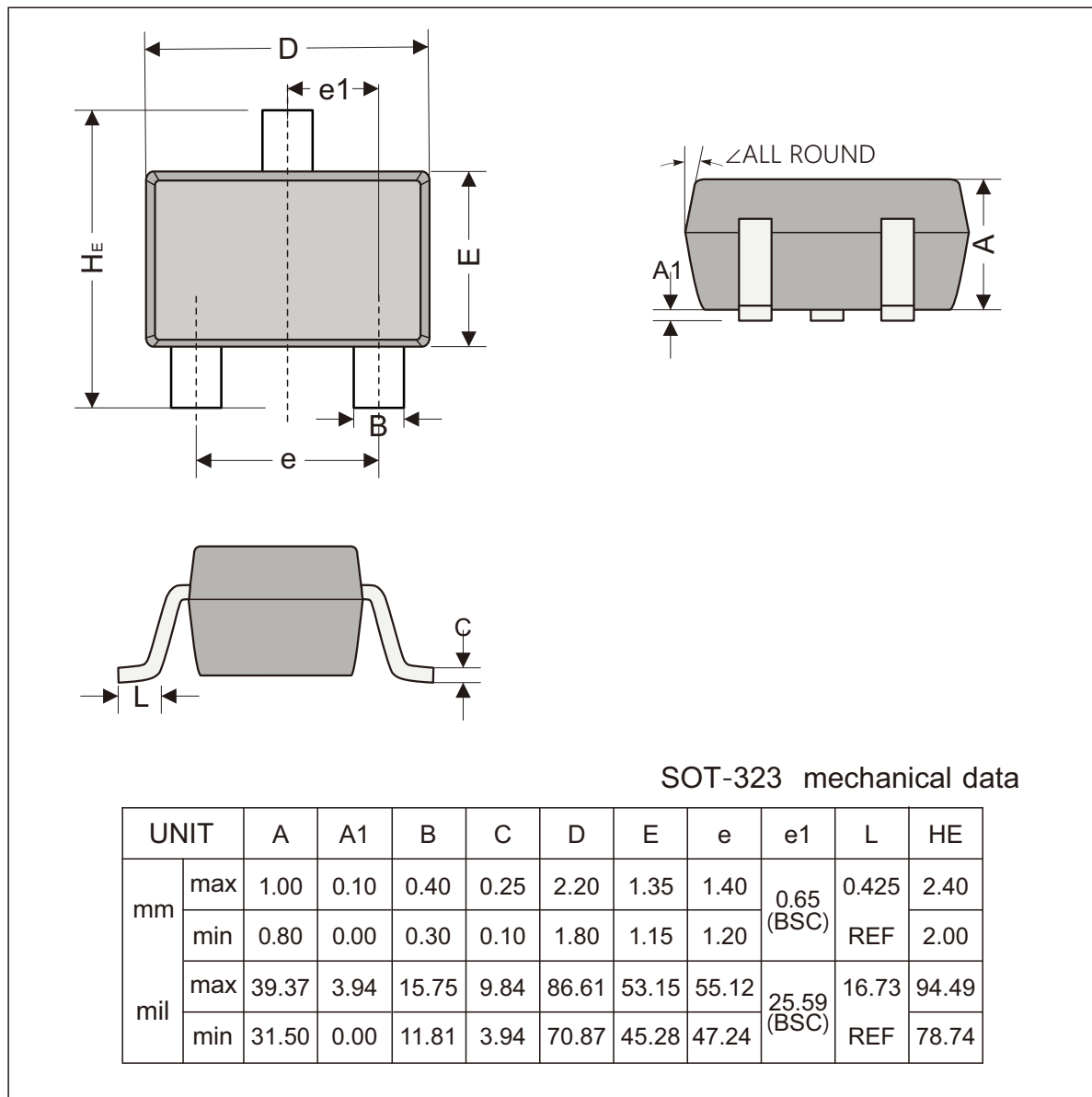


Fig.4 Capacitance Characteristics

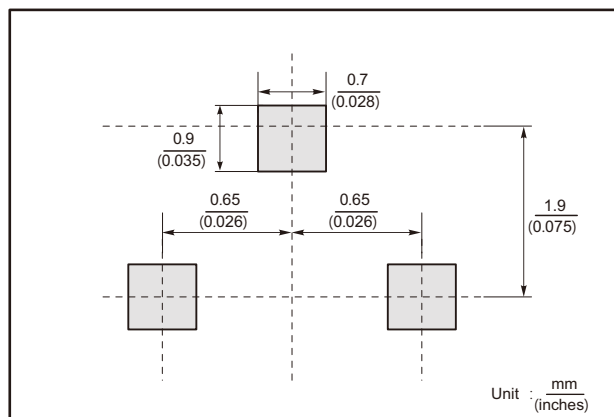




SOT-323 Package Outline Dimensions



The recommended mounting pad size



Marking

Type number	Marking code
BAW56WG	B56
BAV70WG	B70
BAV99WG	B99



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