

FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

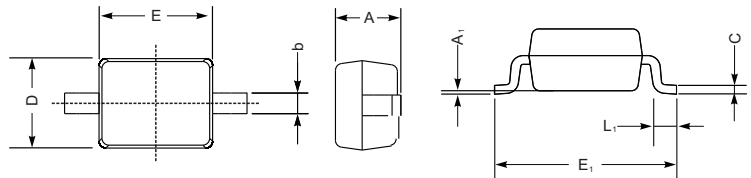
VOLTAGE RANGE

120 - 250Volts

CURRENT

0.25 Ampere

SOD323



UNIT		A	C	D	E	E ₁	b	L ₁	A ₁
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—
mil	max	43	5.9	55	70	108	16	16	8
	min	32	3.1	47	63	100	9.8	7.9	—

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
 Single phase half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

TYPE NUMBER	BAV19WS	BAV20WS	BAV21WS	UNITS
Maximum Recurrent Peak Reverse Voltage	120	200	250	V
Maximum RMS Voltage	100	150	200	V
Maximum DC Blocking Voltage	120	200	250	V
Maximum Average Forward Rectified Current	0.25			A
See Fig. 1	0.25			A
Peak Forward Surge Current	@ at 1s			A
	@ at 1ms			A
	@ at 1 us			A
Maximum Instantaneous Forward Voltage at 0.2A	1.25			V
Maximum DC Reverse Current	0.1			μA
at Rated DC Blocking Voltage	Ta=25°C			
Typical Junction Capacitance	5			pF
Total Power Dissipation	500			mW
Maximum Reverse Recovery Time	50			ns
Operating Temperature Range T _J	-55 to +150			°C
Storage Temperature Range T _{STG}	-55 to +150			°C

RATING AND CHARACTERISTIC CURVES BAV19WS / BAV20WS / BAV21WS

Fig.1 Forward Current Derating Curve

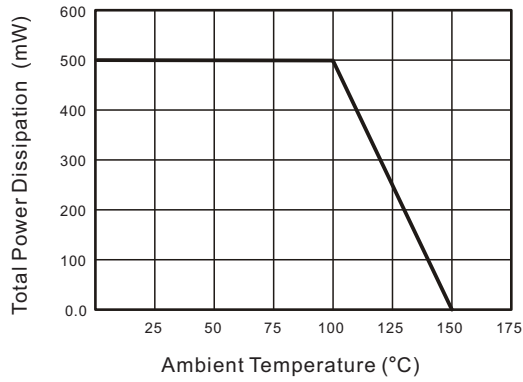


Fig.2 Typical Reverse Characteristics

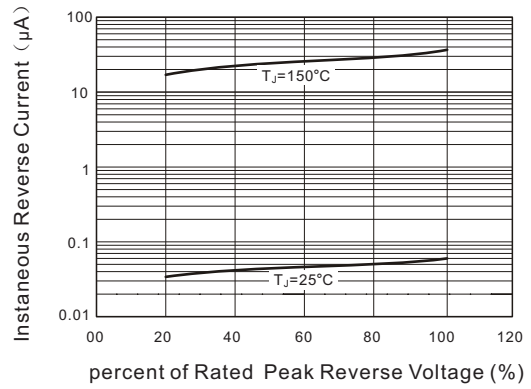


Fig.3 Typical Instantaneous Forward Characteristics

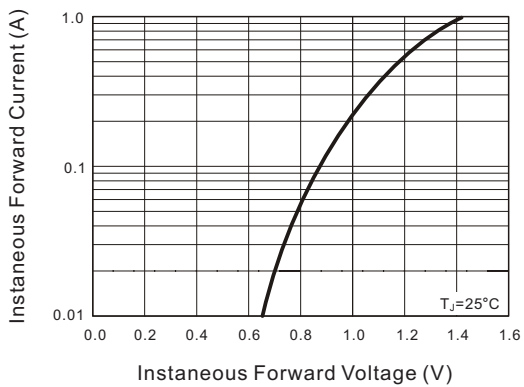
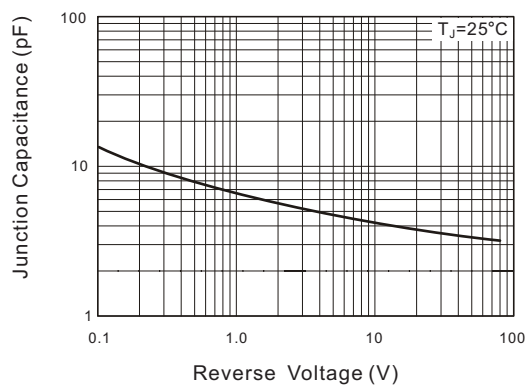


Fig.4 Typical Junction Capacitance



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