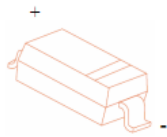




FEATURES



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

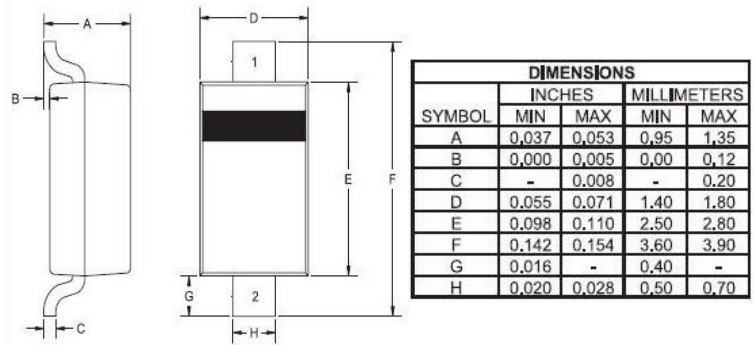
VOLTAGE RANGE

120 - 250Volts

CURRENT

0.25 Ampere

SOD123



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	BAV19W	BAV20W	BAV21W	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				
Peak Forward Surge Current @ at 1s		1.0		A
@ at 1ms		3.0		A
@ at 1 us		9.0		A
Maximum Instantaneous Forward Voltage at 0.2A		1.25		V
Maximum DC Reverse Current at Rated DC Blocking Voltage Ta=25°C		0.1		µA
Typical Junction Capacitance		5		pF
Total Power Dissipation		500		mW
Maximum Reverse Recovery Time		50		ns
Operating Temperature Range Tj		-55 to +150		°C
Storage Temperature Range Tstg		-55 to +150		°C

RATING AND CHARACTERISTIC CURVES BAV19W / BAV20W / BAV21W

Fig.1 Forward Current Derating Curve

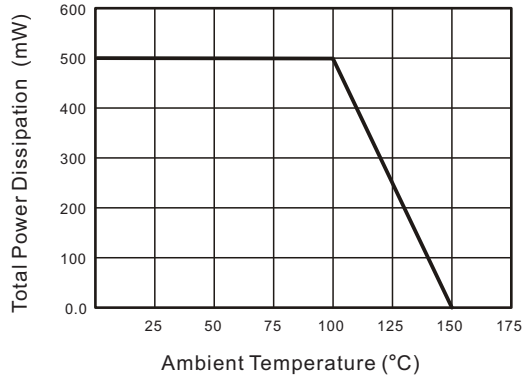


Fig.2 Typical Reverse Characteristics

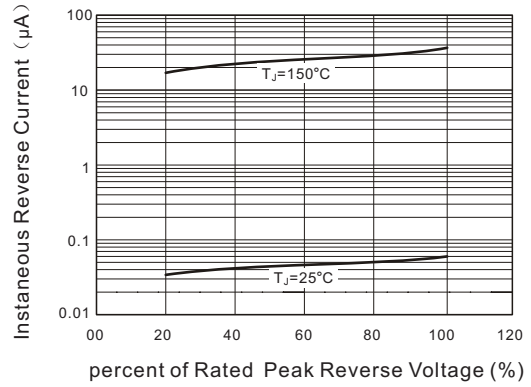


Fig.3 Typical Instantaneous Forward Characteristics

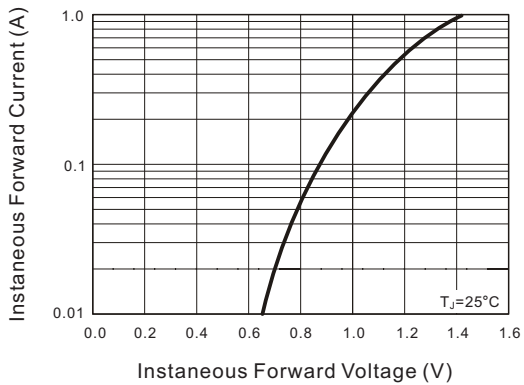


Fig.4 Typical Junction Capacitance

