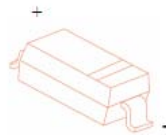




BAV19W / BAV20W / BAV21W

0.25 AMP SURFACE MOUNT SILICON RECTIFIERS



FEATURES

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

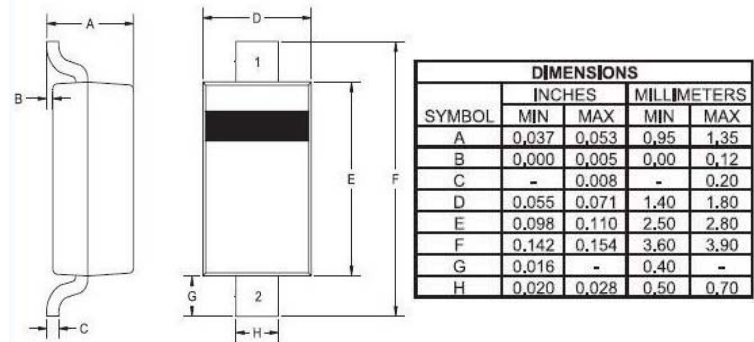
VOLTAGE RANGE

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 Ta=25°C	0.1			μA
at Rated DC Blocking Voltage				
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

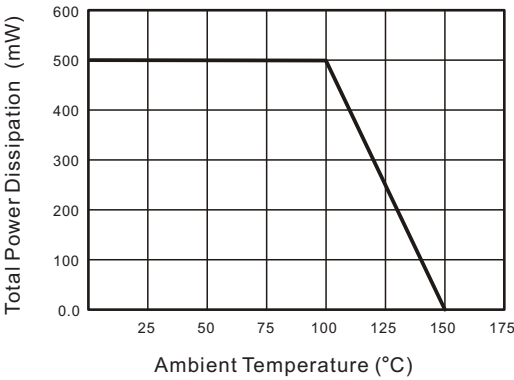


Fig.2 Typical Reverse Characteristics

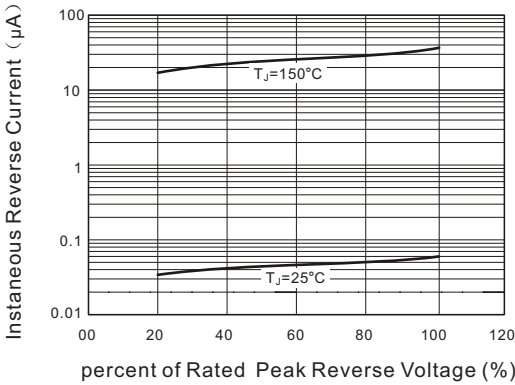


Fig.3 Typical Instaneous Forward Characteristics

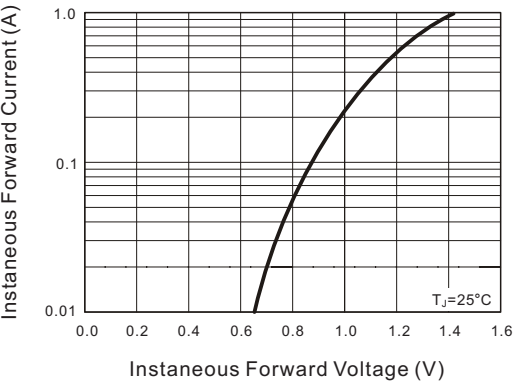


Fig.4 Typical Junction Capacitance

