

BAV16WS THRU BAV21WS

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODE

VOLTAGE RANGE - 75 to 200 Volts

CURRENT - 0.2 to 0.25 Ampere

FEATURES

- * Surface Mount Package Ideally Suited for Automatic Insertion
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage
- * High current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-202E, Method 208 guaranteed
- * Mounting position: Any
- * Weight: 0.008 grams Approx.

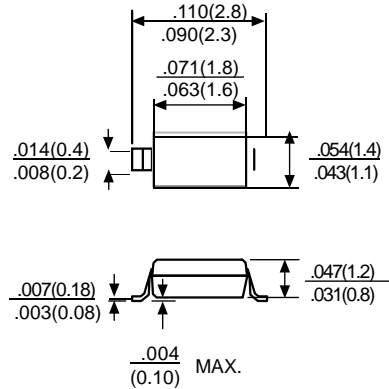
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



SOD-323



Dimensions in inches and (millimeters)

	SYMBOL	L	BAV16WS	BAV19WS	BAV20WS	BAV21WS	UNITS
Maximum Reverse Voltage	VR		75	100	150	200	V
Maximum Recurrent Peak Reverse Voltage	VRRM		100	120	200	250	V
Maximum Average Rectified Current	Io		250		200		mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM		2.0		2.5		A
Maximum Power Dissipation Tamb=25°C	Ptot				200		mW
Maximum Forward Voltage (@IF=100mA)	VF		0.855(@IF=10mA)		1.0		V
Maximum Reverse Current (@VR=VR Max)	IR		1.0		0.1		µA
Maximum Reverse Recovery Time(Note 1)	trr		6.0		50		nS
Typical Junction Capacitance(Note 2)	CJ		2.0		1.5		pF
Typical Thermal Resistance	RθJA		450		375		°C/W
Operating and Storage Temperature Range	TJ,TSTG				-55 to +125		°C

Note: 1. Test Conditions: IF=IR=10mA, RL=100Ω, VR=6V to IR=1mA, RL=100Ω

2. Measured at 1MHz and VR=0

RATING AND CHARACTERISTIC CURVES (BAV16WS THRU BAV21WS)

FIG.1 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

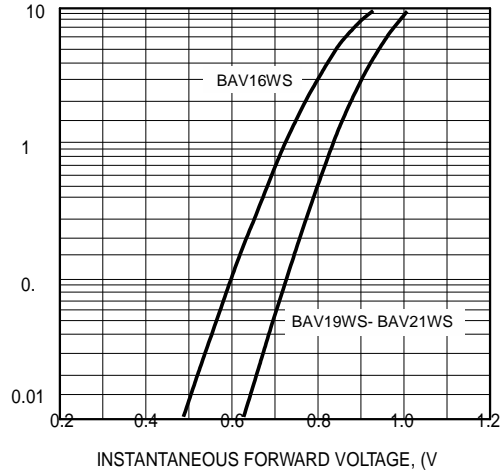


FIG.2 - TYPICAL REVERSE CHARACTERISTICS

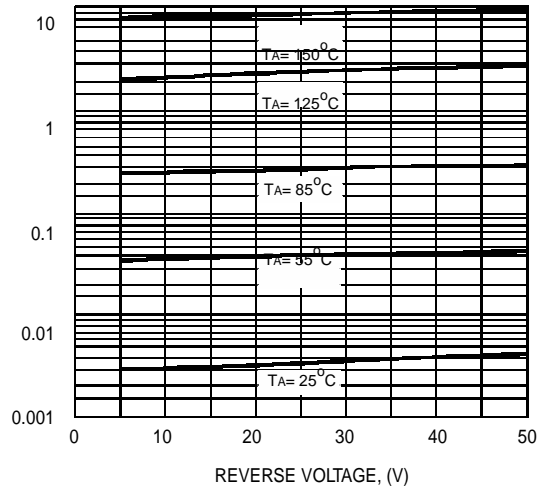


FIG.3 - TYPICAL JUNCTION CAPACITANCE

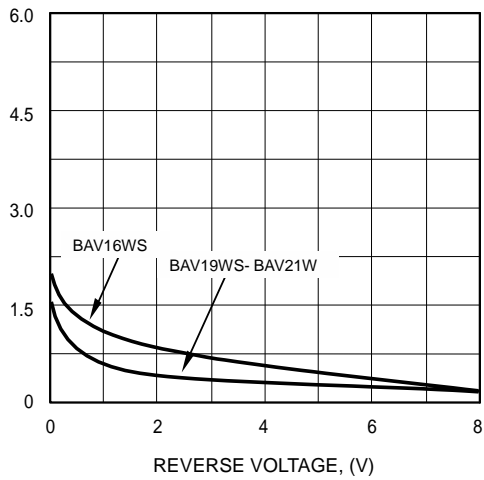


FIG.4 - RECTIFICATION EFFICIENCY MEASUREMENT CIRCUIT

