

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

BAV16W THRU BAV21W

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

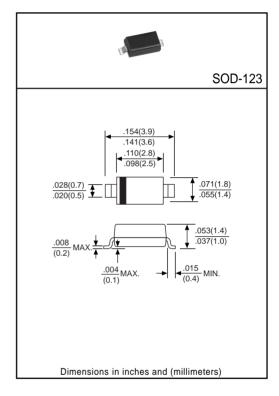
MIL-STD-202E, Method 208 guaranteed

* 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%.



	SYMBOL	BAV16W	BAV19W	BAV20W	BAV21W	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	lo	250	200			mA
Peak Forward Surge Current, 8.3ms single half sine-wave		2.0	2.5			А
superimposed on rated load (JEDEC Method)	IFSM					
Maximum Power Dissipation Tamb=25°C	Ptot	350	410			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			μА
Maximum Reverse Recovery Time(Note 1)	trr	6.0	50			nS
Typical Junction Capacitance(Note 2)	Cl	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=100 Ω , VR=6V to IR=1mA, RL=100 Ω

2. Measured at 1MHz and VR=0

REV-3,MAR,2017 1 www.dccomponents.com

RATING AND CHARACTERISTIC CURVES (BAV16W THRU BAV21W)

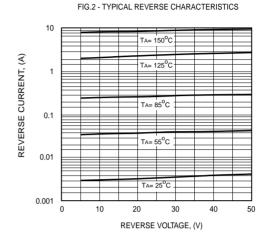
FIG.1 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

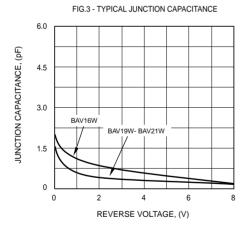
(4) 10 BAV16W

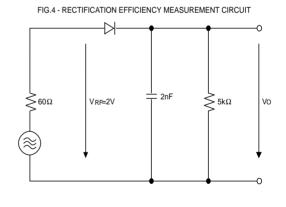
10 BAV19W-BAV21W

0.01 0.2 0.4 0.6 0.8 1.0 1.2

INSTANTANEOUS FORWARD VOLTAGE, (V)







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