

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

BAV16WS THRU BAV21WS

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODE

VOLTAGE RANGE - 100 to 250 Volts

CURRENT - 0.15 to 0.2 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

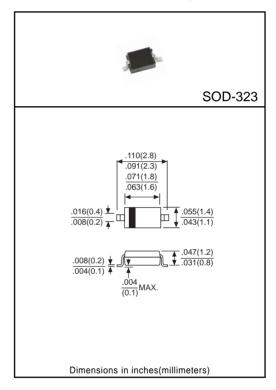
MIL-STD-202E, Method 208 guaranteed

* 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%.



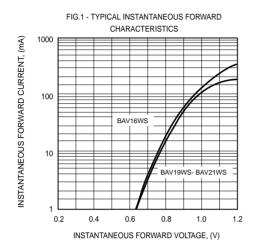
	SYMBOL	BAV16WS	BAV19WS	BAV20WS	BAV21WS	UNITS
Maximum Reverse Voltage	VR	75	100	150	200	V
Maximum Recurrent Peak Reverse Voltage	VRRM	100	120	200	250	V
Maximum Average Rectified Current	lo	150 200			mA	
Peak Forward Surge Current	IFSM	2	2.5			Α
Maximum Power Dissipation @TA=25°C	Ptot	200				mW
Maximum Forward Voltage	VF	0.855 (@IF=10mA) 1.0 @IF=100mA)				V
Maximum Reverse Current (@VR=VR Max)	IR	1.0				μА
Maximum Reverse Recovery Time(Note 1)	trr	6.0 50			nS	
Maximum Junction Capacitance(Note 2)	CJ	2.0 5.0			pF	
Typical Thermal Resistance	RθJA	635				°C/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to +125				°C

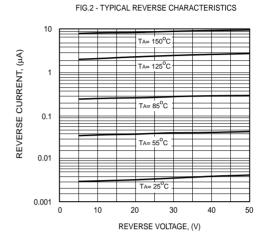
Note: 1. Test Conditions: BAV16WS @ IF=IR=10mA, IRR=1mA, RL=50\Omega; BAV19WS~BAV21WS @ IF=IR=30mA, IRR=3mA, RL=100\Omega

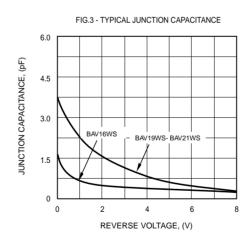
2. Measured at 1MHz and VR=0

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

RATING AND CHARACTERISTIC CURVES (BAV16WS THRU BAV21WS)







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