

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

BAL99W BAW56W BAV70W BAV99W

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODES

VOLTAGE - 100 Volts

CURRENT - 0.15 Ampere

FEATURES

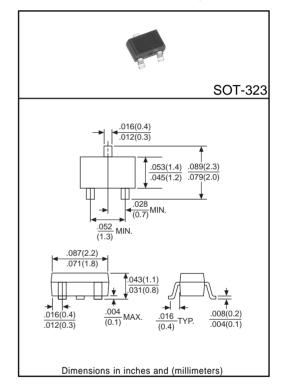
- * Surface Mount Package Ideally Suited for Automatic Insertion
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage drop
- * High current capability

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

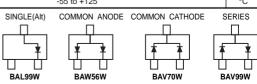
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



	SYMBOL	BAL99W	BAW56W	BAV70W	BAV99W	UNITS
Maximum Reverse Voltage	VR	75				V
Maximum Recurrent Peak Reverse Voltage	VRRM	100				V
Maximum Average Rectified Current	lo	150				mA
Peak Forward Surge Current, 8.3ms single half sine-wave						
superimposed on rated load (JEDEC Method)	IFSM		2.0			A
Maximum Power Dissipation Tamb=25°C	Ptot	200				mW
Maximum Forward Voltage (@IF=10mA)	VF	1.0				V
Maximum Reverse Current (@VR=VR Max)	IR	2.5				μА
Maximum Reverse Recovery Time(Note 1)	trr	6.0				nS
Typical Junction Capacitance(Note 2)	CJ	4.0				pF
Typical Thermal Resistance	RθJA	357				°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

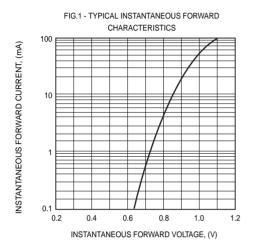
2. Measured at 1MHz and VR=0

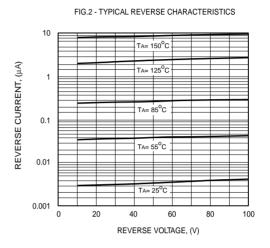


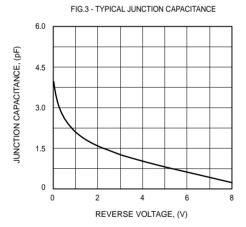
Pin Configuration (Top View)

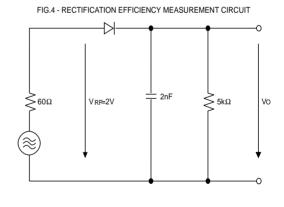
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RATING AND CHARACTERISTIC CURVES (BAL99W, BAW56W, BAV70W, BAV99W)









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