



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

BAS116
BAW156
BAV170
BAV199

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODES

VOLTAGE - 100 Volts

CURRENT - 0.2 Ampere

FEATURES

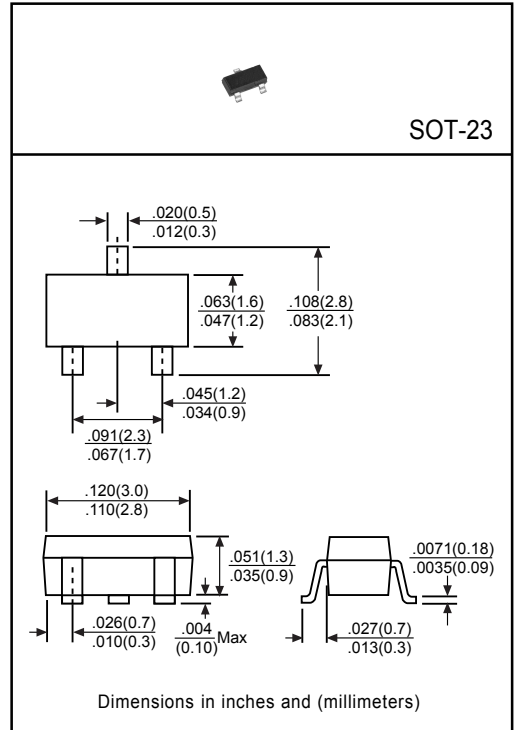
- * Surface Mount Package Ideally Suited for Automatic Insertion
- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage drop
- * High current capability

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.

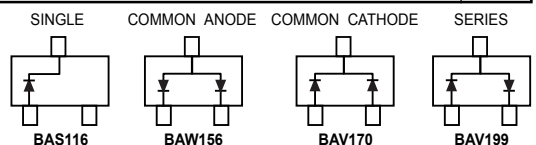
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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	BAS116	BAW156	BAV170	BAV199	UNITS
Maximum Reverse Voltage	VR		75			V
Maximum Recurrent Peak Reverse Voltage	VRRM		100			V
Maximum Average Rectified Current	Io		200			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		250			mW
Maximum Forward Voltage (@IF=10mA)	VF		1.0			V
Maximum Reverse Current (@VR=VR Max)	IR		0.005			µA
Maximum Reverse Recovery Time (Note 1)	trr		3.0			nS
Typical Junction Capacitance (Note 2)	CJ		2.0			pF
Typical Thermal Resistance	RθJA		500			°C/W
Operating and Storage Temperature Range	TJ, TSTG		-55 to +150			°C

Note: 1. Test Conditions: IF=IR=10mA, RL=100Ω, VR=6V to IR=1mA, RL=100Ω
2. Measured at 1MHz and VR=0



Pin Configuration (Top View)