



SMALL SIGNAL DIODE

VOLTAGE RANGE 100 Volts CURRENT 200 mAmpere

FEATURES

- Fast Switching Speed
- * Surface Mount Package Ideally Suited for Automatic Insertion
- * General Purpose Switching Applications

MECHANICAL DATA

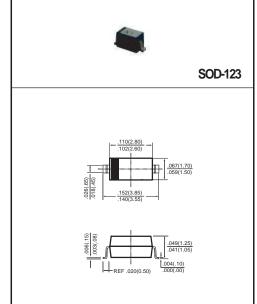
- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed

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%.

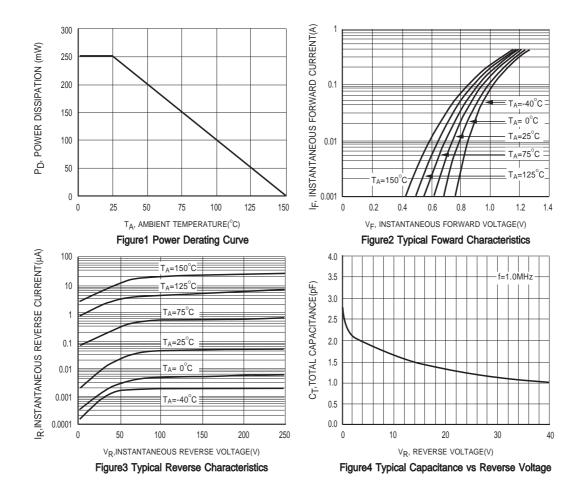
- * Mounting position: Any
- * Weight: 0.01 gram



Dimensions in inches and (millimeters)

RATINGS	SYMBOL	BAV19W	UNITS
Non-Repetitive Peak Reverse Voltage	V _{RM}	120	Volts
Maximum Repetitive Peak Reverse Voltage Maximum Working Peak reverse Voltage Maximum DC Blocking Voltage	VRRM VRWM VR	100	Volts
Maximum RMS Voltage	V _{RMS}	71	Volts
Maximum Forward Comtinuous Current	I _{FM}	400	mAmps
Maximum Average Forward Rectified Current	lo	200	mAmps
Non-Repetitive Peak Forward Surge Current @t=1.0S	I _{FSM}	2.5 0.5	Amps
Typical Reverse Recovery Time(I _F =I _R =30mA,I _{rr} =0.1X _{IR} ,R _L =100Ω)	Trr	50	nS
Typical Junction Capacitance(V _R =0V,f=1MHz)	CT	5	pF
Maximum Power Dissipation	PD	250	mW
Typical Thermal Resistance	R _{ØJA}	500	°C/W
Operating and Storage Temperature Range	T _J ,T _{STG}	-65 to + 150	°C

CHARACTERISTICS		SYMBOL	BAV19W	UNITS
	I _F =0.1A	Ve	1.0	Volts
Maximum Instantaneous Forward Voltage	I _F =0.2A	۴F	1.25	VOILS
Maximum Instantaneous Reverse Current	V _R =100V	I _R	0.1	uAmps



RATING AND CHARACTERISTICS CURVES (BAV19W)



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