



### SMALL SIGNAL DIODE

VOLTAGE RANGE 150 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

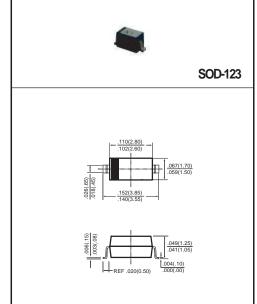
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

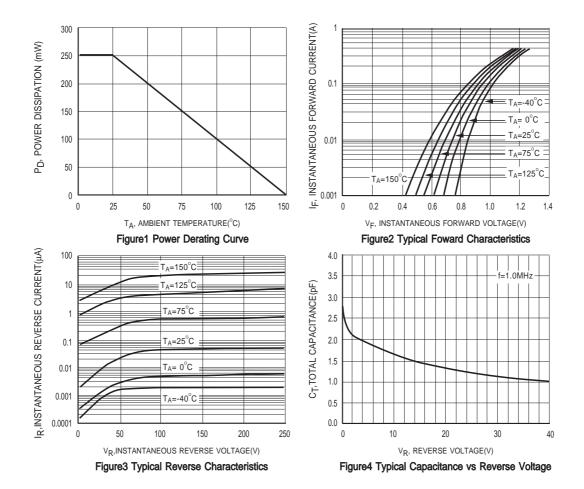


Dimensions in inches and (millimeters)

RATINGS	SYMBOL	BAV20W	UNITS
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	200	Volts
Maximum Repetitive Peak Reverse Voltage Maximum Working Peak reverse Voltage Maximum DC Blocking Voltage	VRRM VRWM VR	150	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	106	Volts
Maximum Forward Comtinuous Current	I <sub>FM</sub>	400	mAmps
Maximum Average Forward Rectified Current	lo	200	mAmps
Non-Repetitive Peak Forward Surge Current @t=1.0mS @t=1.0S	I <sub>FSM</sub>	2.5 0.5	Amps
Typical Reverse Recovery Time(I <sub>F</sub> =I <sub>R</sub> =30mA,I <sub>rr</sub> =0.1X <sub>IR</sub> ,R <sub>L</sub> =100Ω)	Trr	50	nS
Typical Junction Capacitance(V <sub>R</sub> =0V,f=1MHz)	CT	5	pF
Maximum Power Dissipation	PD	250	mW
Typical Thermal Resistance	R <sub>OJA</sub>	500	°C/W
Operating and Storage Temperature Range	T <sub>.I</sub> ,T <sub>STG</sub>	-65 to + 150	°C

ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	BAV20W	UNITS
Maximum Instantaneous Ferward Valtage	@I <sub>F</sub> =0.1A @I <sub>F</sub> =0.2A	V <sub>F</sub>	1.0 1.25	Volts
Maximum Instantaneous Reverse Current	@V <sub>R</sub> =150V	I <sub>R</sub>	0.1	uAmps



# **RATING AND CHARACTERISTICS CURVES (BAV20W)**



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