



SMALL SIGNAL DIODE

VOLTAGE RANGE 120 to 250 Volts CURRENT 200 mAmpere

FEATURES

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

MECHANICAL DATA

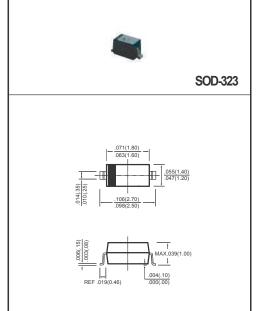
- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

- * Mounting position: Any
- * Weight: 0.004 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (@T_A=25°C unless otherwise noted)

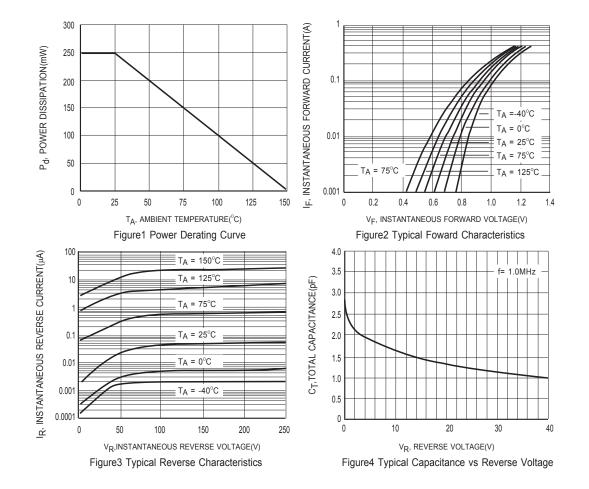
For capacitive load, derate current by 20%.

RATINGS		SYMBOL	BAV19WS	BAV20WS	BAV21WS	UNITS
Non-Repetitive Peak Reverse Voltage		V _{RM}	120	200	250	Volts
Maximum Repetitive Peak Reverse Voltage Maximum Working Peak reverse Voltage Maximum DC Blocking Voltage		VRRM VRWM VR	100	150	200	Volts
RMS Reverse Voltage		VRMS	71	106	141	Volts
Forward Comtinuous Current		IFM	400			mAmps
Average Rectified Output Current		Io	200			mAmps
Peak Forward Surge Current	@t<1.0mS @t<1.0S	IFSM	2.5 0.5			Amps
Repetitive Peak Forward Current		IFRM	625			mAmps
Reverse Recovery Time(I _F =I _R =30mA I _{rr} =0.1XI _R ,R _L =100Ω)		Trr	50			nS
Capacitance between terminals (V _R =0V,f=1MHz)		Ст	5			pF
Power Dissipation		PD	200			mW
Storage Temperature Range		TSTG	-65 to + 150			°C

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

CHARACTERISTICS		SYMBOL	BAV19WS	BAV20WS	BAV21WS	UNITS
Forward Voltage	@IF=0.1A @IF=0.2A	VF	1.0 1.25			Volts
Reverse Current	@VR=100V (BAV19WS) @VR=150V (BAV20WS) @VR=200V (BAV21WS)	I _R		0.1		uAmps

Note 1: "Fully ROHS compliant", "100% Sn plating (Pb-free)".



RATING AND CHARACTERISTICS CURVES (BAV19WS/BAV20WS/BAV21WS)

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