

# BAV19WS ~ BAV21WS

**PRV : 100 - 200 Volts**  
**Io : 200 mA**

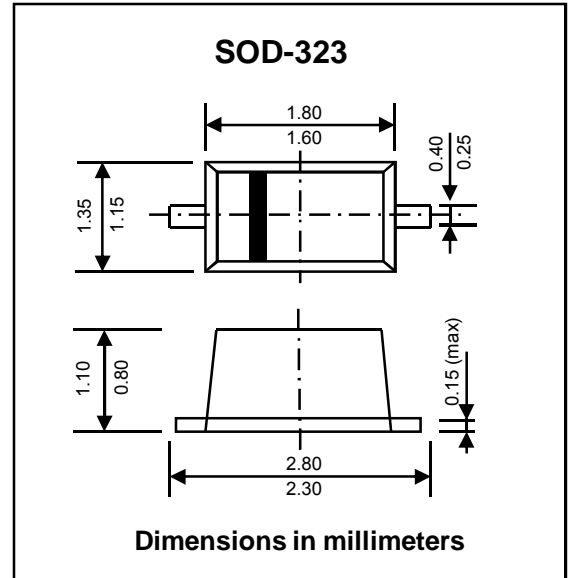
**FEATURES :**

- \* Fast switching speed
- \* High conductance
- \* For General Purpose switching applications
- \* Pb / RoHS Free

**MECHANICAL DATA :**

- \* Case: SOD-323 Plastic Package
- \* Weight: approx. 0.004g
- \* Marking Code : " WO "

## FAST SWITCHING DIODES



**Absolute Maximum Ratings** (Ta = 25 °C)

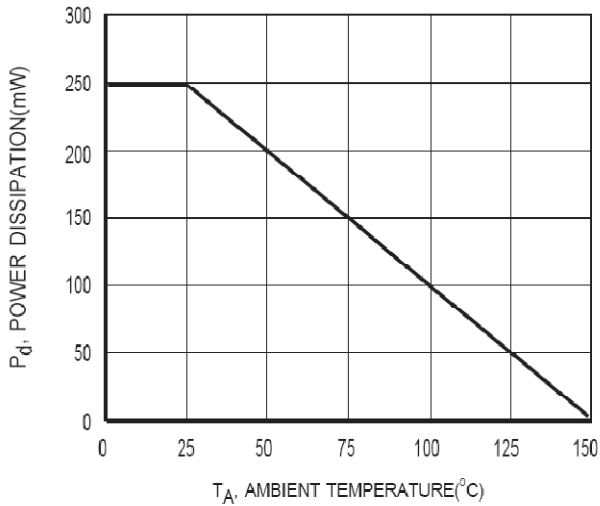
Parameter	Symbol	BAV19WS	BAV20WS	BAV21WS	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	120	200	250	V
DC Reverse Voltage	V <sub>R</sub>	100	150	200	V
Average Rectified Output Current	I <sub>F(AV)</sub>	200			mA
Forward Continuous Current	I <sub>FM</sub>	400			mA
Repetitive Peak Forward Current	I <sub>FRM</sub>	625			mA
Non-Repetitive Peak Forward Surge Current	at t = 1 μs I <sub>FSM</sub>	2.5			A
		0.5			
Power Dissipation	P <sub>tot</sub>	200			mW
Operating Junction and Storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-65 to + 150			°C

**Electrical Characteristics** (Ta = 25 °C)

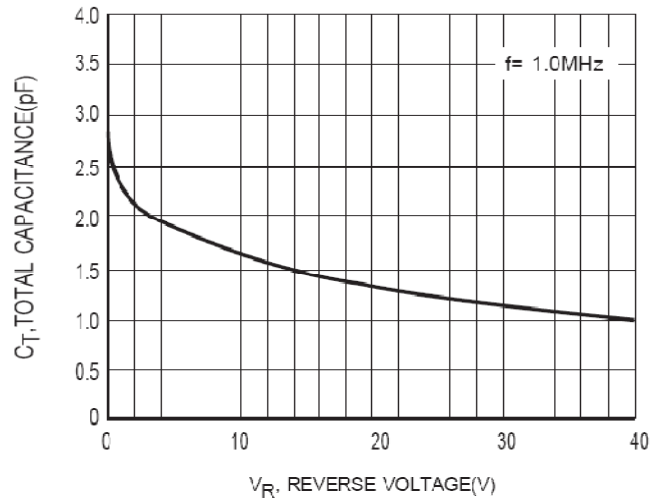
Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	120	-	-	V
		200	-	-	
		250	-	-	
Reverse Current	I <sub>R</sub>	at V <sub>R</sub> = 100 V	-	100	nA
		at V <sub>R</sub> = 150 V	-	100	
		at V <sub>R</sub> = 200 V	-	100	
Forward Voltage	V <sub>F</sub>	at I <sub>F</sub> = 100 mA	-	1	V
		at I <sub>F</sub> = 200 mA	-	1.25	
Total Capacitance at V <sub>R</sub> = 0, f = 1 MHz	C <sub>T</sub>	-	-	5	pF
Reverse Recovery Time at I <sub>F</sub> = I <sub>R</sub> = 30 mA, I <sub>RR</sub> = 0.1*I <sub>R</sub> , R <sub>L</sub> = 100 Ω	T <sub>rr</sub>	-	-	50	ns

**RATING AND CHARACTERISTIC CURVES (BAV19WS ~ BAV21WS)**

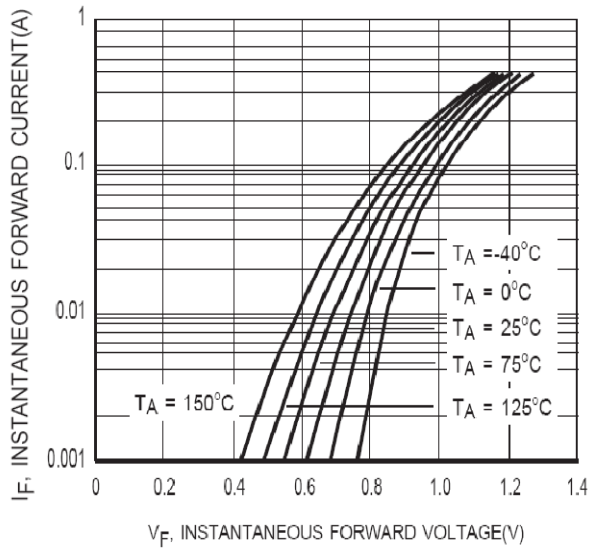
**Fig.1 - Power Derating Curve**



**Fig.2 - Typical Total Capacitance vs Reverse Voltage**



**Fig.3 - Typical Forward Characteristics**



**Fig.4 - Typical Reverse characteristics**

