# Vishay Semiconductors

<b>ELECTRICAL CHARACTERISTICS</b> (T <sub>amb</sub> = 25 °C, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	I <sub>F</sub> = 100 mA		$V_{F}$			1	V
	I <sub>F</sub> = 200 mA		$V_{F}$			1.25	V
Repetitive peak reverse voltage	V <sub>R</sub> = 100 V	BAV19WS-V	I <sub>R</sub>			100	nA
	V <sub>R</sub> = 100 V, T <sub>J</sub> = 100 °C	BAV20WS-V	I <sub>R</sub>			15	μΑ
	V <sub>R</sub> = 150 V	BAV21WS-V	I <sub>R</sub>			100	nA
	V <sub>R</sub> = 150 V, T <sub>J</sub> = 100 °C	BAV19WS-V	I <sub>R</sub>			15	μΑ
	V <sub>R</sub> = 200 V	BAV20WS-V	I <sub>R</sub>			100	nA
	V <sub>R</sub> = 200 V, T <sub>J</sub> = 100 °C	BAV21WS-V	I <sub>R</sub>			15	μΑ
Dynamic forward resistance	I <sub>F</sub> = 10 mA		r <sub>f</sub>		5		Ω
Diode capacitance	V <sub>R</sub> = 0, f = 1 MHz		C <sub>D</sub>		1.5		рF
Reverse recovery time	$I_F$ = 30 mA, $I_R$ = 30 mA, $I_R$ = 3 mA, $R_L$ = 100 $\Omega$		t <sub>rr</sub>			50	ns

#### TYPICAL CHARACTERISTICS (T<sub>amb</sub> = 25 °C, unless otherwise specified)

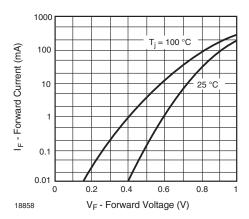


Fig. 1 - Forward Current vs. Forward Voltage

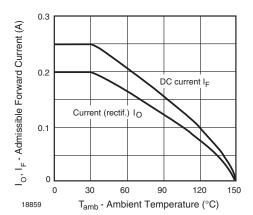


Fig. 2 - Admissible Forward Current vs. Ambient Temperature

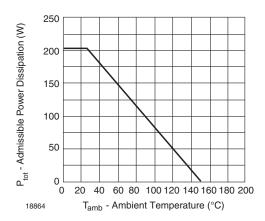


Fig. 3 - Admissible Power Dissipation vs. Ambient Temperature

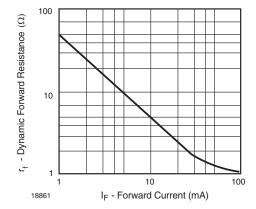


Fig. 4 - Dynamic Forward Resistance vs. Forward Current

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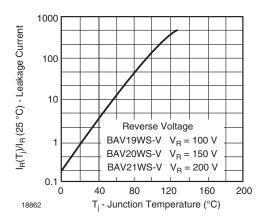


Fig. 5 - Leakage Current vs. Junction Temperature

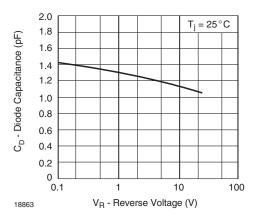
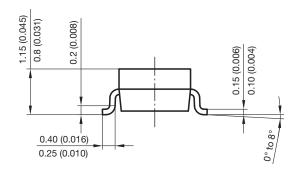
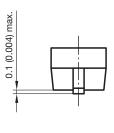
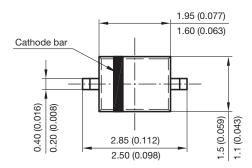


Fig. 6 - Capacitance vs. Reverse Voltage

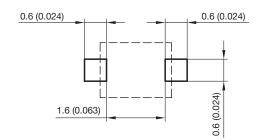
#### PACKAGE DIMENSIONS in millimeters (inches): SOD-323







Foot print recommendation:



Document no.:S8-V-3910.02-001 (4) Created - Date: 24.August.2004 Rev. 5 - Date: 23.Sept.2009

## **Legal Disclaimer Notice**



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