SD103AW-V, SD103BW-V, SD103CW-V

Vishay Semiconductors



Electrical Characteristics

T_{amb} = 25 °C, unless otherwise specified

Parameter	Test condition	Part	Symbol	Min.	Тур.	Max.	Unit
Leakage current	V _R = 30 V	SD103AW-V	I _R			5	μΑ
	V _R = 20 V	SD103BW-V	I _R			5	μΑ
	V _R = 10 V	SD103CW-V	I _R			5	μΑ
Forward voltage drop	I _F = 20 mA		V_{F}			370	mV
	I _F = 200 mA		V _F			600	mV
Diode capacitance	V _R = 0 V, f = 1 MHz		C _D		50		pF
Reverse recovery time	$I_F = I_R = 50 \text{ mA to } 200 \text{ mA},$ recover to 0.1 I_R		t _{rr}		10		ns

Typical Characteristics

T_{amb} = 25 °C, unless otherwise specified

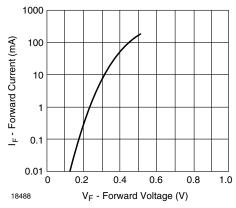


Figure 1. Typical Variation of Forward Current vs. Forward Voltage

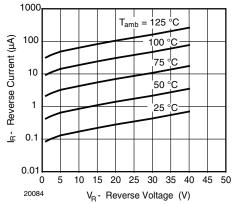


Figure 3. Typical Variation of Reverse Current at Various **Temperatures**

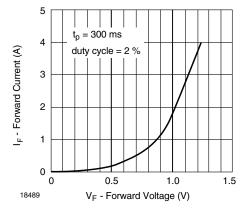


Figure 2. Typical High Current Forward Conduction Curve

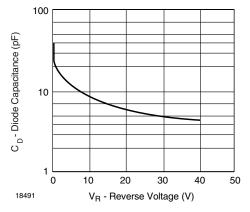


Figure 4. Typical Capacitance vs. Reverse Voltage

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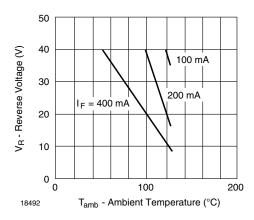
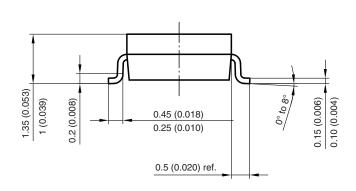
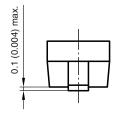


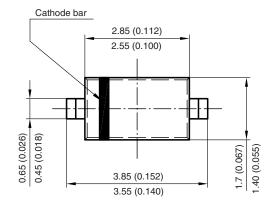
Figure 5. Blocking Voltage Deration vs. Temperature at Various Average Forward Currents

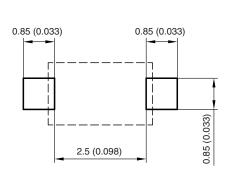
Package Dimensions in millimeters (inches): SOD-123





Mounting Pad Layout





Rev. 4 - Date: 24. Sep. 2009 Document no.: S8-V-3910.01-001 (4)

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