

# Small Signal Schottky Barrier Diode

#### **Features**

- Low reverse current and low forward
- voltage.
- High reliability.
- Small surface mounting type.

## **Typical Applications**

• For general purpose applications

### **Mechanical Data**

- Case: SOD-123
- Molding compound, UL flammability classification rating 94V-0.
- Terminals: Tin plated leads, solderable per MIL-STD-202, Method 208.

### **Ordering Information**

Part Number	Package	Shipping	Marking Code
SD103AW 🗆	SOD-123	3000/Tape Reel	S4
SD103BW 🗆	SOD-123	3000/Tape Reel	S5
SD103CW	SOD-123	3000/Tape Reel	S6

 $\Box$ : none is for Lead Free package;

"G" is for Halogen Free package.

### Maximum Ratings (@T<sub>A</sub>=25°C unless otherwise specified)

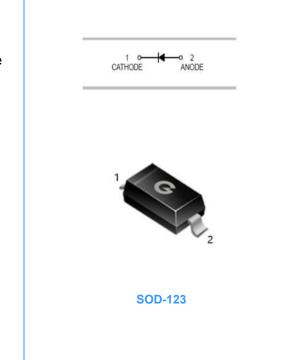
Characteristic	Symbol	SD103AW	SD103BW	SD103CW	Units
Peak repetitive reverse voltage	V <sub>RRM</sub>	40	30	20	V
RMS Reverse voltage	Vrms	28	21	14	V
Maximum average forward output current	I <sub>F(AV)</sub>	v) 350		mA	
Peak forward surge current,8.3ms single half-sine-wave	8.3ms single half-sine-wave I <sub>FSM</sub> 1.5		А		

## **Thermal Characteristics**

Characteristic	Symbol	Value	Units
Power dissipation	PD	400	mW
Typical thermal resistance per leg	R oja*	300	°C/W
Operating junction temperature range	TJ	125	°C
Storage temperature range	Т <sub>stg</sub>	-55 to +150	°C
Storage temperature range	T <sub>STG</sub>	-55 to +150	

\* Part mounted on FR-4 board with recommended pad layout

SD103AW SD103BW SD103CW









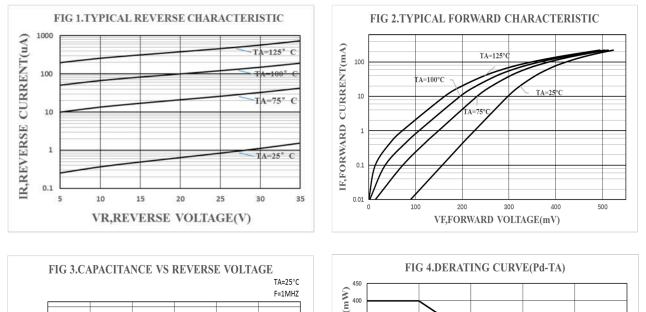
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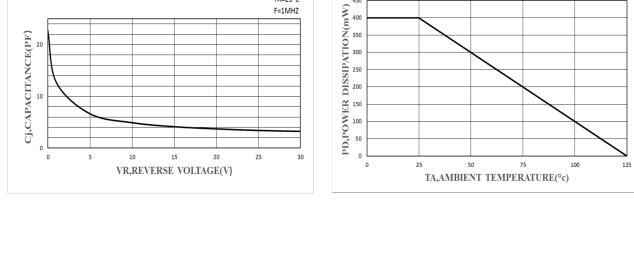
SD103AW SD103BW SD103CW

**Electrical Characteristics (@**T<sub>A</sub>=25<sup>°</sup>C unless otherwise specified)

Characteristic	Symbol	Test conditions	Min.	Тур.	Max.	Units
Forward Voltage	VF*	I⊧=20mA	-	-	0.37	v
		I⊧=200mA	-	-	0.60	
Maximum Peak Reverse Current	lr**	V <sub>R</sub> = 30V (SD103AW) V <sub>R</sub> = 20V (SD103BW) V <sub>R</sub> = 10V (SD103CW)	-	-	5	uA
Capacitance between terminals	Ст	V <sub>R</sub> =0V,f=1MHz	-	22	50	pF
*Pulse width ≤380 uS, Duty cyo **pulse test , tp≤5ms	cle < 2%		·			

### Ratings and Characteristic Curves (T<sub>A</sub>=25°C unless otherwise noted)



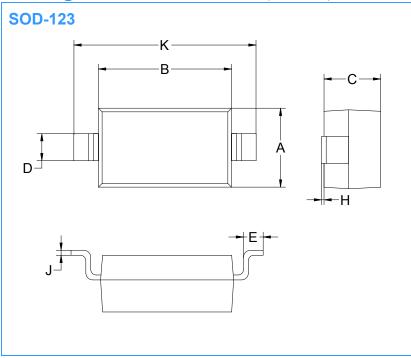




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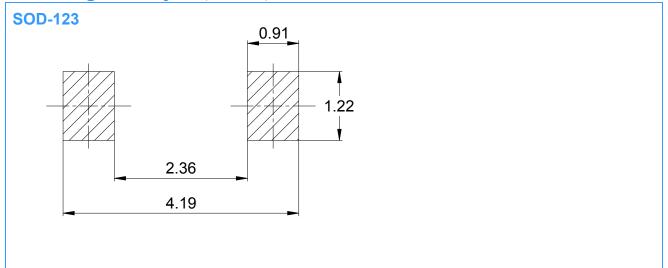
SD103AW SD103BW SD103CW

Package Outline Dimensions(unit:mm)



	SOD-123	
Dim	Min	Max
А	1.45	1.75
В	2.55	2.85
С	1.00	1.30
D	0.50	0.60
E	0.25	0.45
н	0.02	0.10
J	0.05	0.15
К	3.55	3.85

#### Mounting Pad Layout(unit:mm)



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