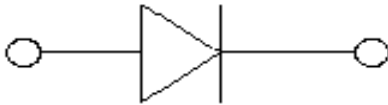


## Small Signal Schottky Diode

### Features

- $V_R$  40V/30V/20V
- $I_{FAV}$  350mA



### Mechanical Data

- **Package:** SOD123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

	Marking
SD103AW	S4
SD103BW	S5
SD103CW	S6

### ■ Maximum Ratings ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE	
Reverse voltage	$V_R$	V	$I_R=100\mu\text{A}$	SD103AW	40
				SD103BW	30
				SD103CW	20
Peak forward surge current	$I_{FSM}$	A	$t_p=8.3\text{ms}$ , half sine	1.5	
Average forward current	$I_{FAV}$	A	$T_c=25^\circ\text{C}$	0.35	
Power dissipation	$P_D$	mW		400	
Maximum junction temperature	$T_j$	$^\circ\text{C}$		-55 to +125	
Storage temperature range	$T_{stg}$	$^\circ\text{C}$		-55 to +150	
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	$^\circ\text{C}/\text{W}$		315	

### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE	
Maximum Forward voltage	$V_F$	V	$I_F=20\text{mA}$ , $T_A=25^\circ\text{C}$	0.37	
	$V_F$	V	$I_F=200\text{mA}$ , $T_A=25^\circ\text{C}$	0.60	
Maximum Reverse current	$I_R$	$\mu\text{A}$	SD103AW $V_R=30\text{V}$ , $T_A=25^\circ\text{C}$	5.0	
			SD103BW $V_R=20\text{V}$ , $T_A=25^\circ\text{C}$		
			SD103CW $V_R=10\text{V}$ , $T_A=25^\circ\text{C}$		
Minimum Breakdown voltage	$V_{(BR)}$	V	$I_R=100\mu\text{A}$	SD103AW	40
				SD103BW	30
				SD103CW	20
Typical Junction capacitance	$C_J$	pF	$V_R=0\text{V}$ , $f=1\text{MHz}$	50	

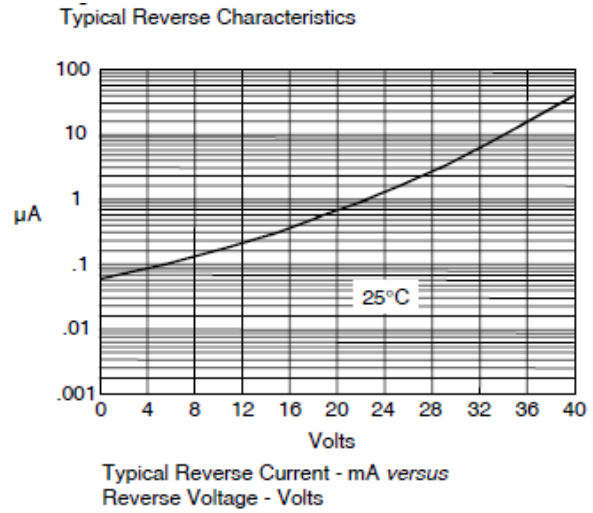
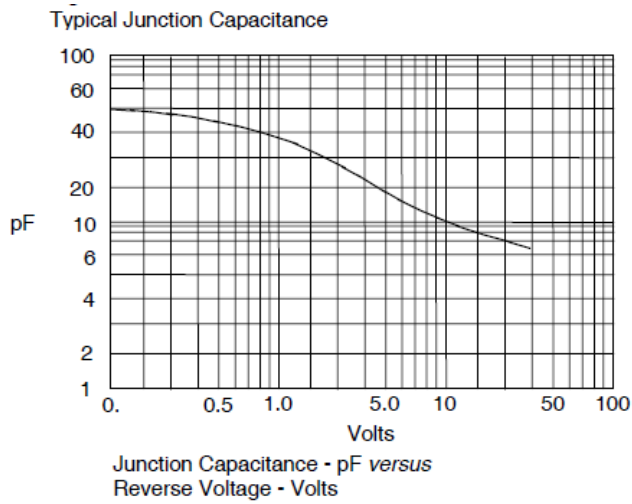
### ■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SD103AW Thru SD103CW	F2	Approximate 0.008	3000	30000	120000	7" reel

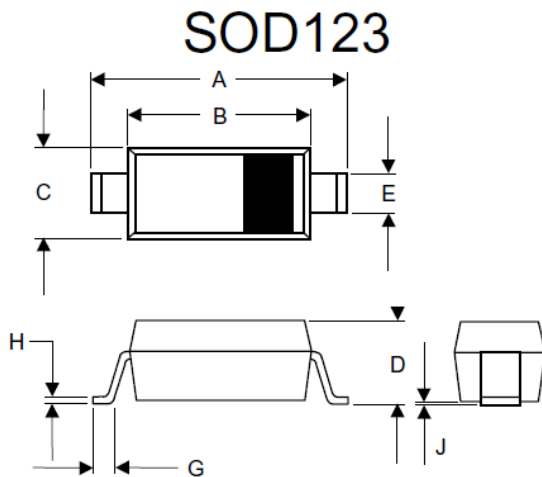


# SD103AW THRU SD103CW

## ■ Characteristics (Typical)

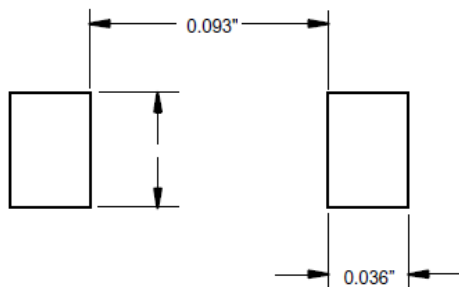


## ■ Outline Dimensions



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	-----	.053	-----	1.35	
E	.012	.031	0.30	.78	
G	.006	-----	0.15	-----	
H	-----	.01	-----	.25	
J	-----	.006	-----	.15	

## ■ Soldering Footprint



Unit: inch



## SD103AW THRU SD103CW

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