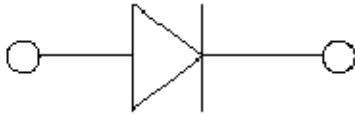


## Small Signal Schottky Diode

### Features

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



### Mechanical Data

- **Package:** SOD323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

	Marking
SD103AWS	S4
SD103BWS	S5
SD103CWS	S6

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE	
Reverse voltage	$V_R$	V	$I_R=100\mu\text{A}$	SD103AWS	40
				SD103BWS	30
				SD103CWS	20
Peak forward surge current	$I_{FSM}$	A	$t_p=8.3\text{ms}$ , half sine	1.5	
Average forward current	$I_{FAV}$	mA	$T_c=25^\circ\text{C}$	350	
Power dissipation	$P_D$	mW		200	
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	$R_{\theta JA}$	$^\circ\text{C}/\text{W}$		500	

### ■ 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	$I_R$	$\mu\text{A}$	SD103AWS	$V_R=30\text{V}$ , $T_A=25^\circ\text{C}$	5.0
			SD103BWS	$V_R=20\text{V}$ , $T_A=25^\circ\text{C}$	
			SD103CWS	$V_R=10\text{V}$ , $T_A=25^\circ\text{C}$	
Minimum Breakdown voltage	$V_{(BR)}$	V	$I_R=100\mu\text{A}$	SD103AWS	40
				SD103BWS	30
				SD103CWS	20
Typical Junction capacitance	$C_J$	pF	$V_R=0\text{V}$ , $f=1\text{MHz}$	50	



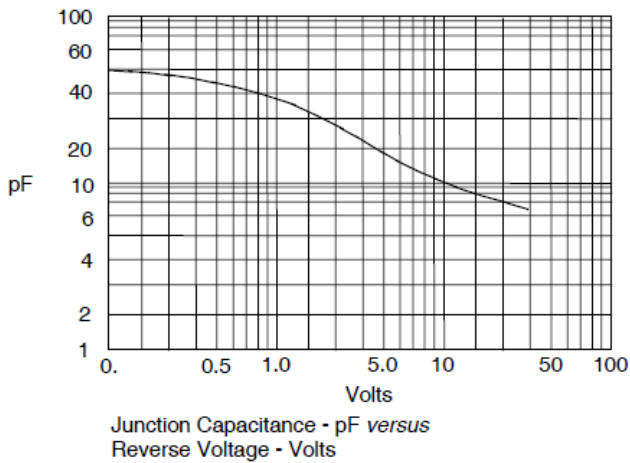
# SD103AWS THRU SD103CWS

## Ordering Information (Example)

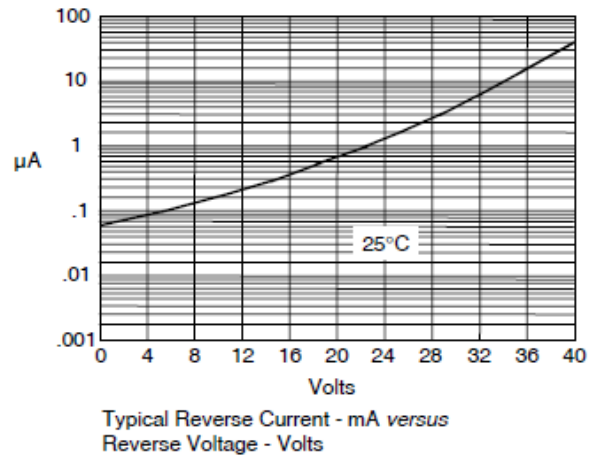
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SD103AWS Thru SD103CWS	F2	Approximate 0.004	3000	30000	120000	7" reel

## Characteristics (Typical)

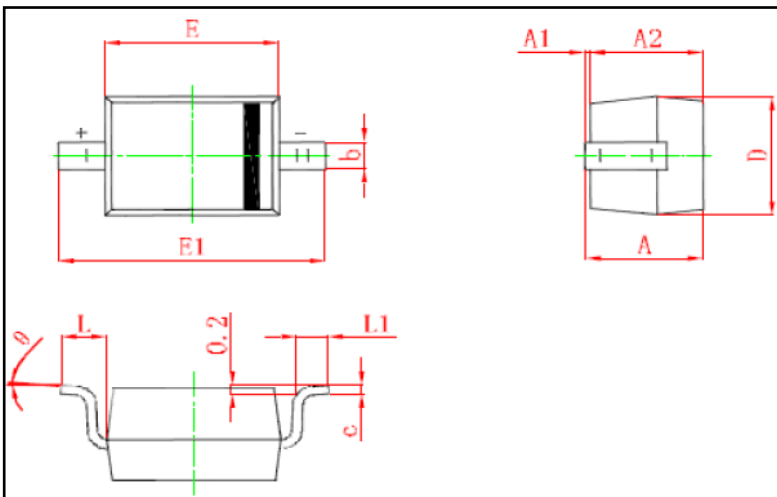
Typical Junction Capacitance



Typical Reverse Characteristics



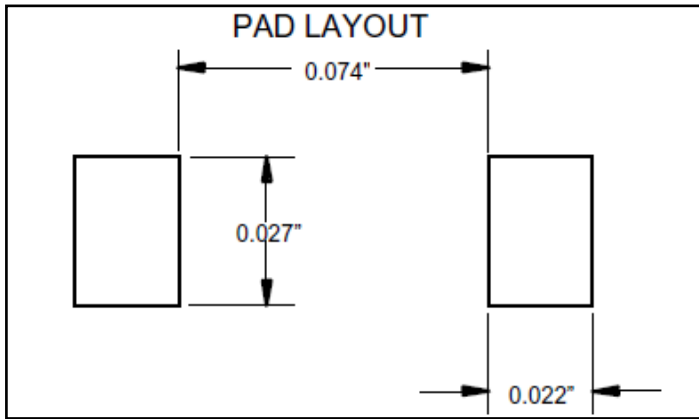
## Outline Dimensions



Symbol	Min. (mm)	Max. (mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.400
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°



■ Soldering Footprint





## SD103AWS THRU SD103CWS

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