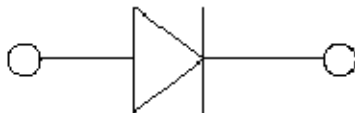


Small Signal Schottky Diode

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	$R_{\theta JA}$	$^\circ\text{C/W}$		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	μA	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

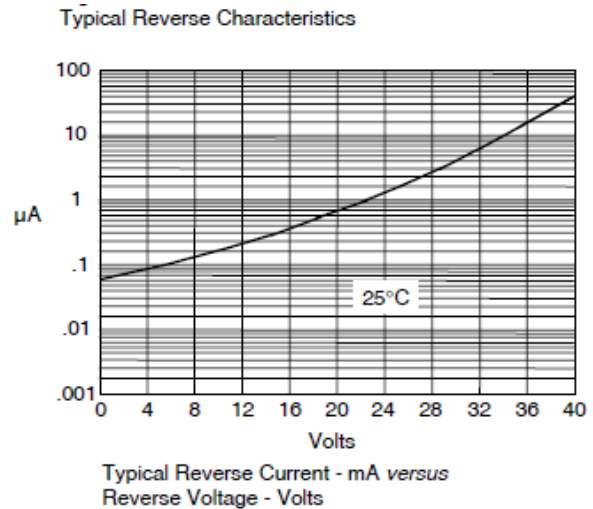
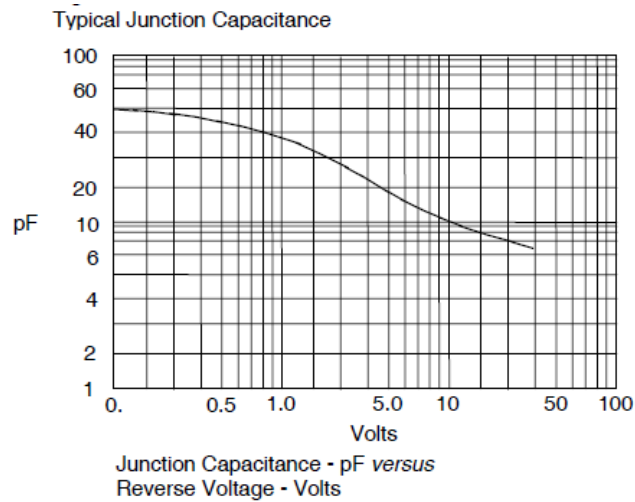


SD103AWS THRU SD103CWS

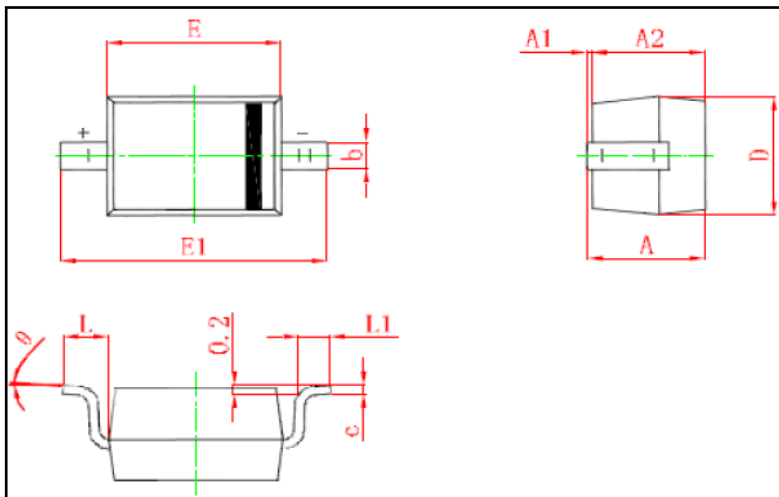
■ Ordering Information (Example)

PREFERED 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)



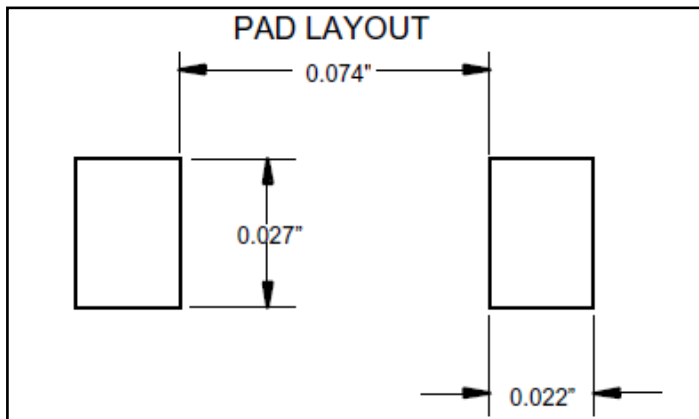
■ Outline Dimensions



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

Disclaimer

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