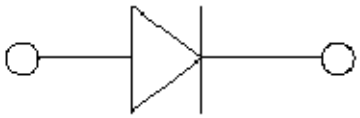
Small Signal Schottky Diode

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 (Ta=25°C Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	Conditions	VALUE	
Reverse voltage	V_R	V	I_R=100uA	SD103AWS	40
				SD103BWS	30
				SD103CWS	20
Peak forward surge current	I_{FSM}	A	t_p=8.3ms, half sine	1.5	
Average forward current	I_{FAV}	mA	T_c=25°C	350	
Power dissipation	P_D	mW		200	
Maximum junction temperature	T_j	°C		-55 to +125	
Storage temperature range	T_{stg}	°C		-55 to +150	
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	°C /W		500	

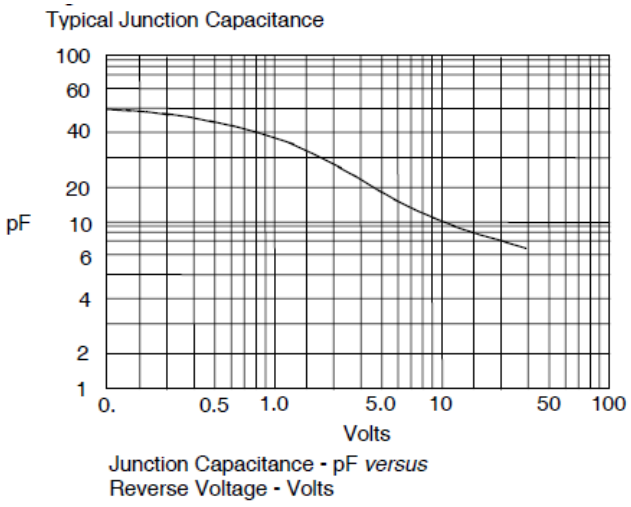
■Electrical Characteristics（Ta=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	Conditions		VALUE	
Maximum Forward voltage	V_F	V	I_F=20mA, T_A=25°C		0.37	
	V_F	V	I_F=200mA, T_A=25°C		0.60	
Maximum Reverse current	I_R	uA	SD103AWS	V_R=30V,T_A=25°C	5.0	
			SD103BWS	V_R=20V,T_A=25°C		
			SD103CWS	V_R=10V,T_A=25°C		
Minimum Breakdown voltage	$V_{(BR)}$	V	I_R=100uA		SD103AWS	40
					SD103BWS	30
					SD103CWS	20
Typical Junction capacitance	C_J	pF	V_R=0V, f =1MHz		50	

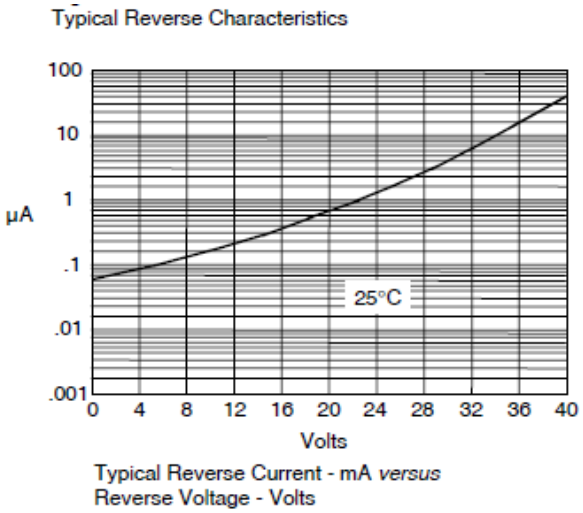
■Ordering Information (Example)

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)

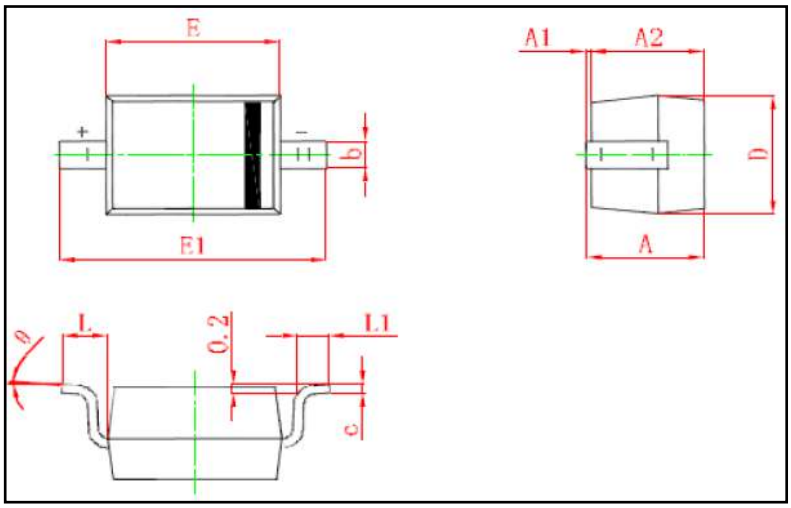


Junction Capacitance - pF *versus*
Reverse Voltage - Volts



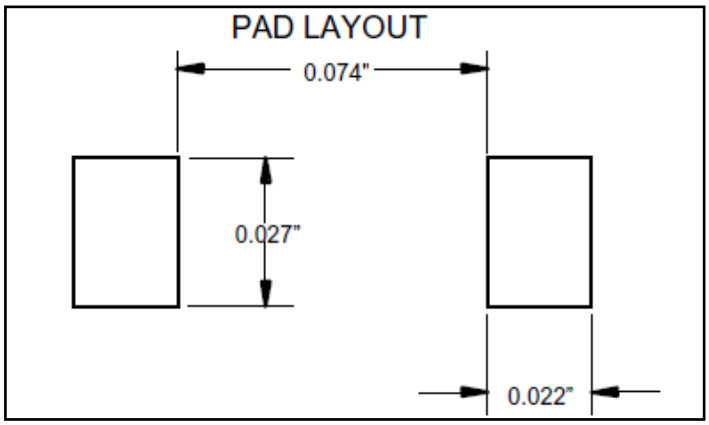
Typical Reverse Current - mA *versus*
Reverse Voltage - Volts

■ 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



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