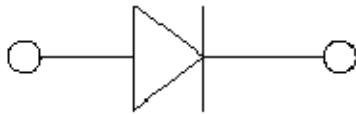


Small Signal Schottky Diode

Features

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



Mechanical Data

- **Package:** SOD-323
- **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	$I_R=100\mu A$	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	$T_c=25^\circ C$	350	
Power dissipation	P_D	mW		200	
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°C Unless otherwise specified)

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



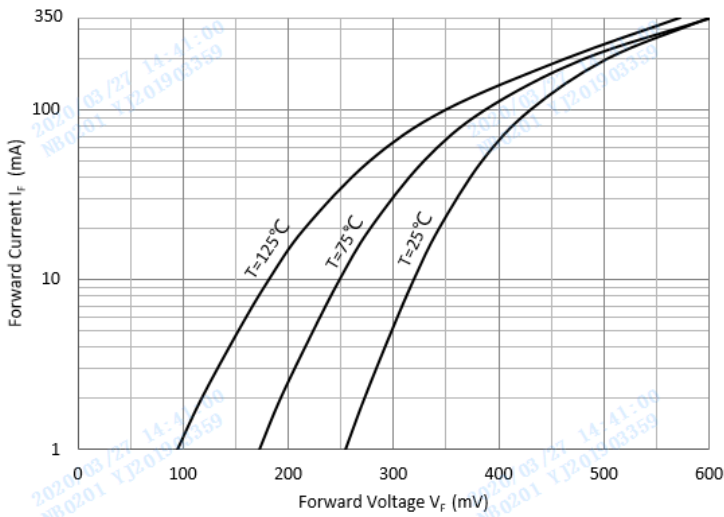
SD103AWS THRU SD103CWS

Ordering Information (Example)

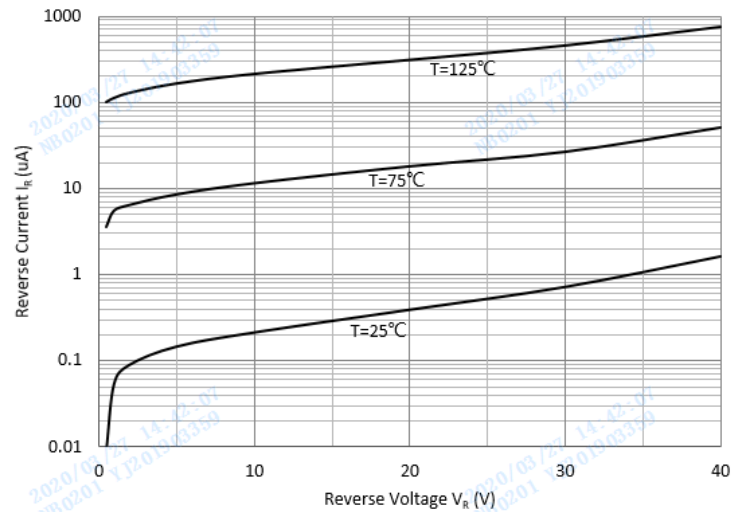
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SD103AWS Thru SD103CWS	F2	Approximate 0.004	3000	30000	120000	7" reel

Characteristics (Typical)

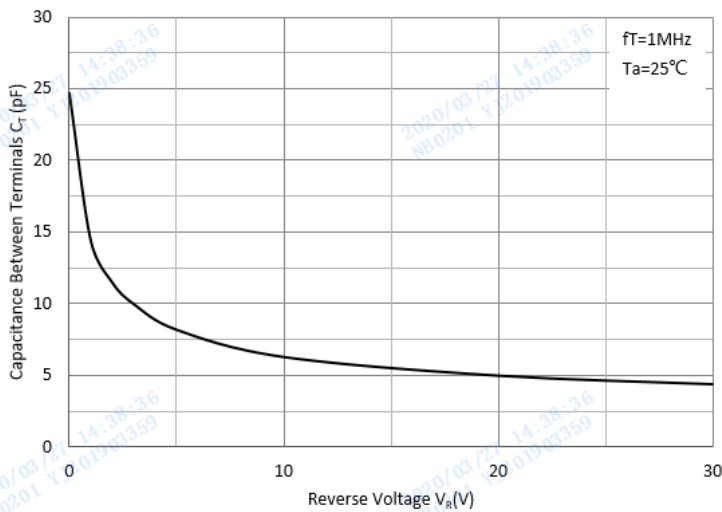
Forward Characteristics



Reverse Characteristics



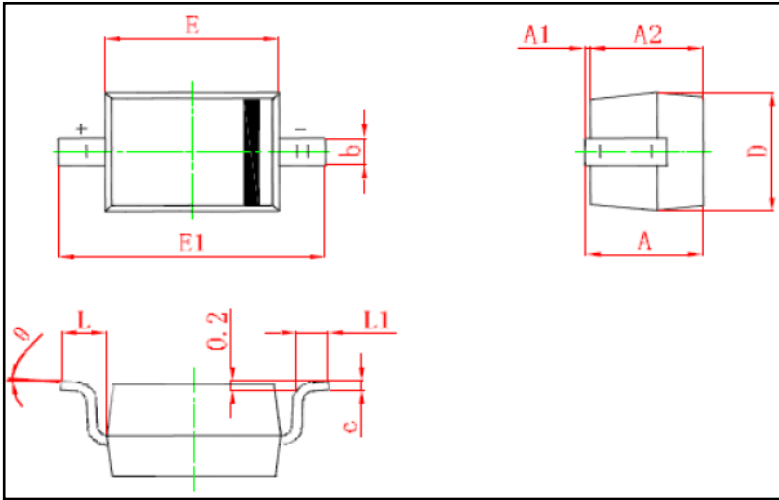
Capacitance Characteristics





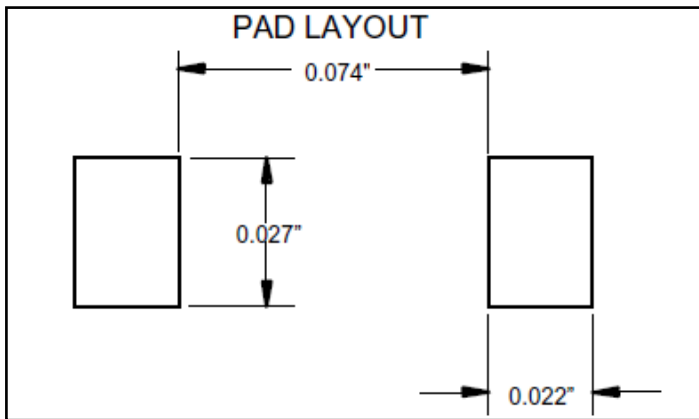
SD103AWS THRU SD103CWS

■ SOD-323 Package 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°

■ SOD-323 Soldering Footprint





SD103AWS THRU SD103CWS

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.