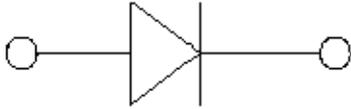


Small Signal Schottky Diode

Features

- V_R 60V/50V/40V
- I_{FAV} 70mA



Mechanical Data

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

	Marking
SD101AWS	S1
SD101BWS	S2
SD101CWS	S3

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE	
Reverse voltage	V_R	V	$I_R=10\mu\text{A}$	SD101AWS	60
				SD101BWS	50
				SD101CWS	40
Average forward current	I_{FAV}	mA	$T_c=25^\circ\text{C}$	70	
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	$I_F=1\text{mA}, T_A=25^\circ\text{C}$	SD101AWS	0.41
				SD101BWS	0.4
				SD101CWS	0.39
	V_F	V	$I_F=15\text{mA}, T_A=25^\circ\text{C}$	1.0	
Maximum Reverse current	I_R	μA	SD101AWS	$V_R=50\text{V}, T_A=25^\circ\text{C}$	0.2
			SD101BWS	$V_R=40\text{V}, T_A=25^\circ\text{C}$	
			SD101CWS	$V_R=30\text{V}, T_A=25^\circ\text{C}$	
Minimum Breakdown voltage	$V_{(BR)}$	V	$I_R=10\mu\text{A}$	SD101AWS	60
				SD101BWS	50
				SD101CWS	40
Maximum Junction capacitance	C_J	pF	$V_R=1\text{V}, f=1\text{MHz}$	2	

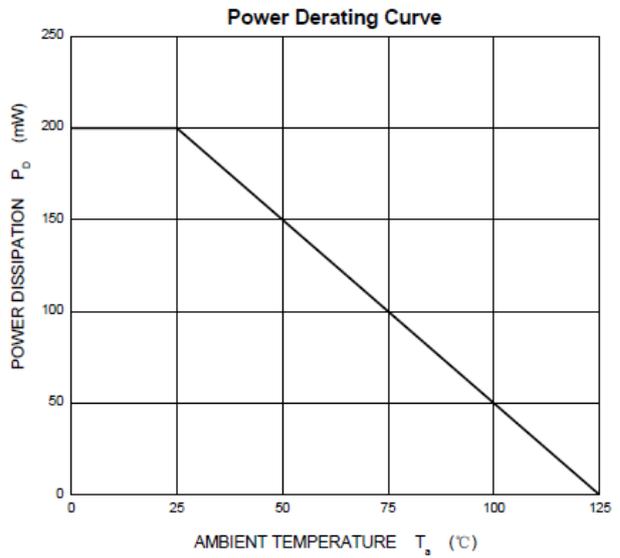
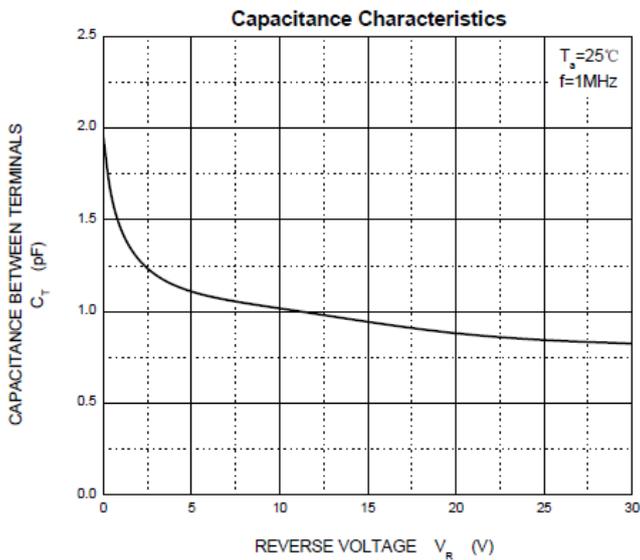
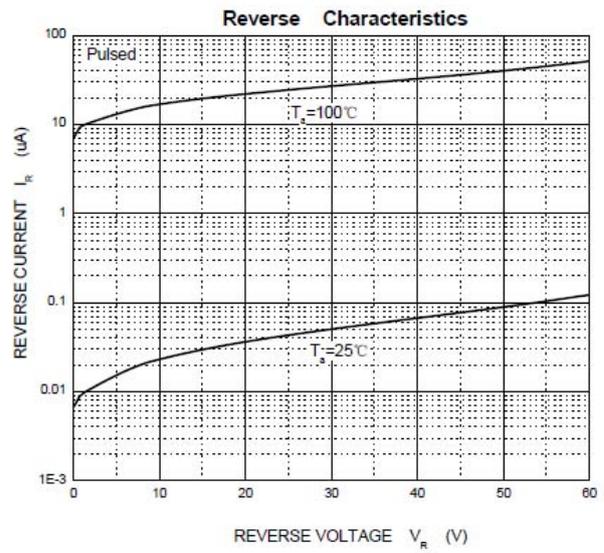
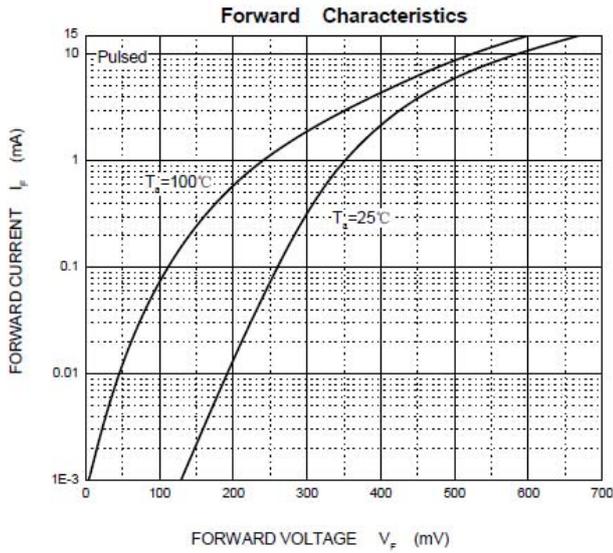


SD101AWS THRU SD101CWS

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SD101AWS Thru SD101CWS	F2	Approximate 0.0048	3000	30000	120000	7" reel

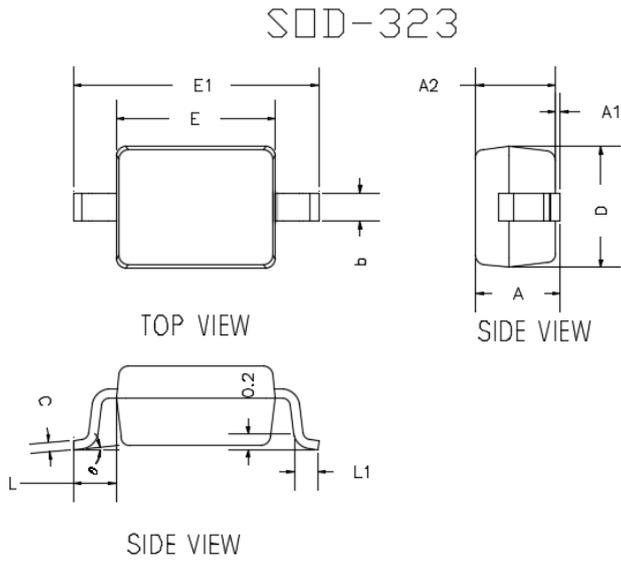
Characteristics (Typical)





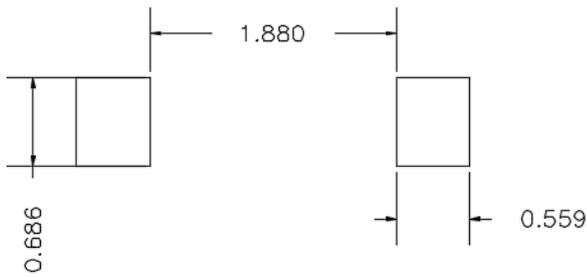
SD101AWS THRU SD101CWS

■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	---	0.0393	---	1.0000
A1	0.0000	0.0039	0.0000	0.1000
A2	0.0314	0.0354	0.8000	0.9000
b	0.0098	0.0157	0.2500	0.4000
c	0.0031	0.0059	0.0800	0.1500
D	0.0472	0.0551	1.2000	1.4000
E	0.0629	0.0709	1.6000	1.8000
E1	0.0984	0.1063	2.5000	2.7000
L	0.0187TYP		0.475TYP	
L1	0.0098	0.0157	0.250	0.400
e	0°	8°	0°	8°

■ Soldering Footprint



UNIT : mm

SUGGESTED SOLDER PAD LAYOUT



SD101AWS THRU SD101CWS

Disclaimer

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