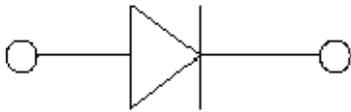


## Small Signal Schottky Diode



### Features

- $V_R$  60V/50V/40V
- $I_{FM}$  15mA

### Mechanical Data

- **Package:** SOD123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

	Marking
SD101AW	S1
SD101BW	S2
SD101CW	S3

### ■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE	
Reverse voltage	$V_R$	V	$I_R=10\mu A$	SD101AW	60
				SD101BW	50
				SD101CW	40
Forward continuous current	$I_{FM}$	mA	$T_a=25^\circ C$	15	
Power dissipation	$P_D$	mW		400	
Maximum junction temperature	$T_j$	°C		125	
Storage temperature range	$T_{stg}$	°C		-55 to +150	
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	°C /W		250	

### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE	
Maximum Forward voltage	$V_F$	V	$I_F=1mA, T_A=25^\circ C$	0.41	
	$V_F$	V	$I_F=15mA, T_A=25^\circ C$	1.0	
Maximum Reverse current	$I_R$	uA	SD101AW	$V_R=50V, T_A=25^\circ C$	0.2
			SD101BW	$V_R=40V, T_A=25^\circ C$	
			SD101CW	$V_R=30V, T_A=25^\circ C$	
Minimum Breakdown voltage	$V_{(BR)}$	V	$I_R=10\mu A$	SD101AW	60
				SD101BW	50
				SD101CW	40
Maximum Junction capacitance	$C_J$	pF	$V_R=1V, f=1MHz$	2	

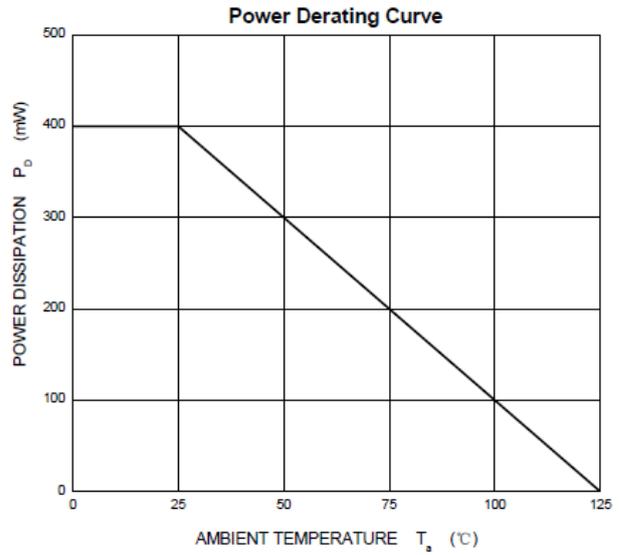
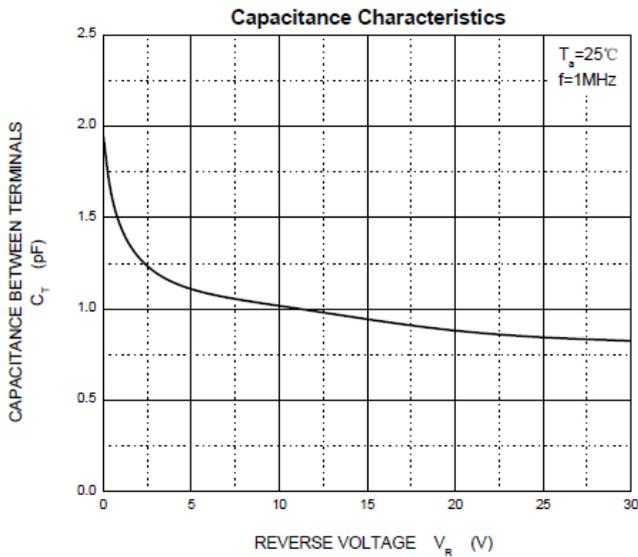
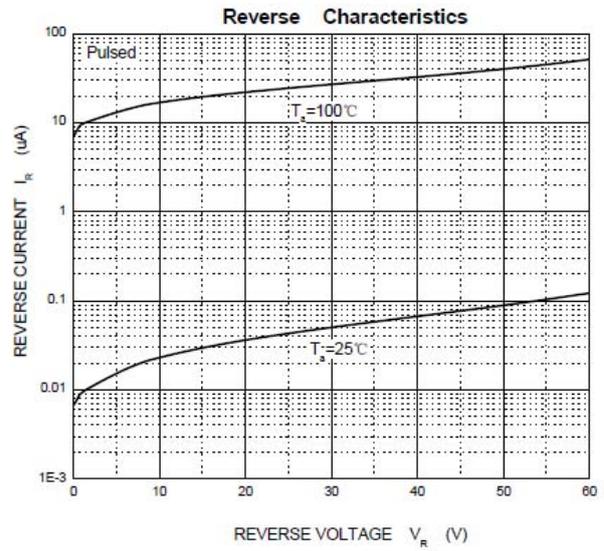
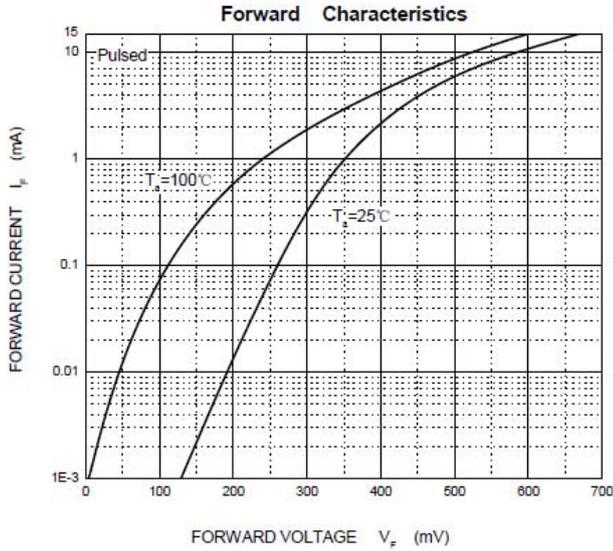


# SD101AW THRU SD101CW

## Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SD101AW THRU SD101CW	F2	Approximate 0.011	3000	30000	120000	7" reel

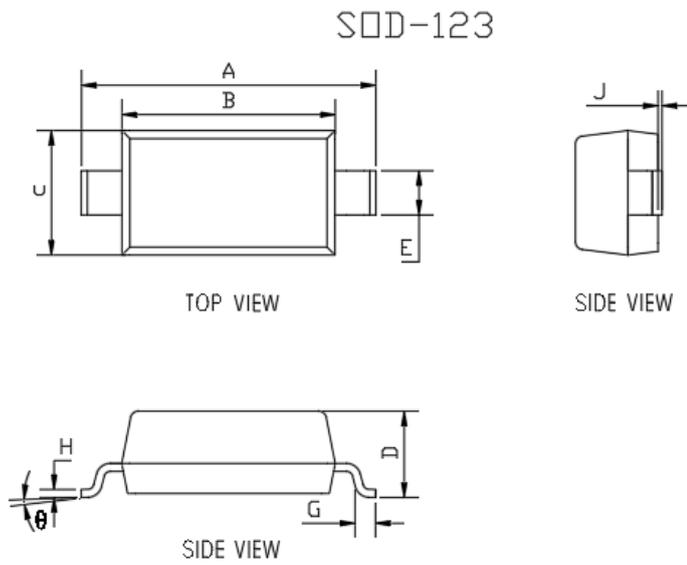
## Characteristics (Typical)





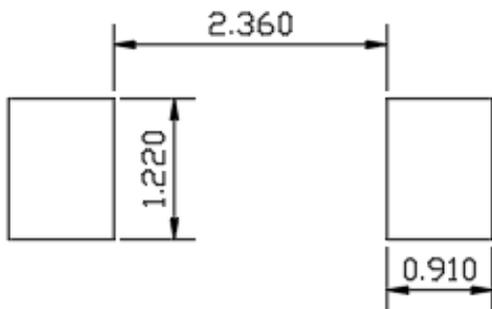
# SD101AW THRU SD101CW

## ■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.140	0.152	3.550	3.850
B	0.100	0.112	2.550	2.850
C	0.055	0.071	1.400	1.800
D	0.037	0.053	0.950	1.350
E	0.020	0.028	0.510	0.710
G	0.006	0.018	0.150	0.450
H	0.003	0.010	0.080	0.250
J	0.000	0.006	0.000	0.150
$\theta$	0	8°	0	8°

## ■ Soldering Footprint



UNIT : mm

SUGGESTED SOLDER PAD LAYOUT



## SD101AW THRU SD101CW

---

### 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.