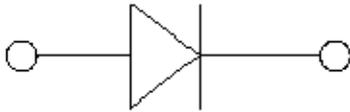


## Small Signal Schottky Diode



### 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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE	
Reverse voltage	$V_R$	V	$I_R=10\mu A$	SD101AWS	60
				SD101BWS	50
				SD101CWS	40
Average forward current	$I_{FAV}$	mA	$T_c=25^\circ C$	70	
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°C Unless otherwise specified)

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

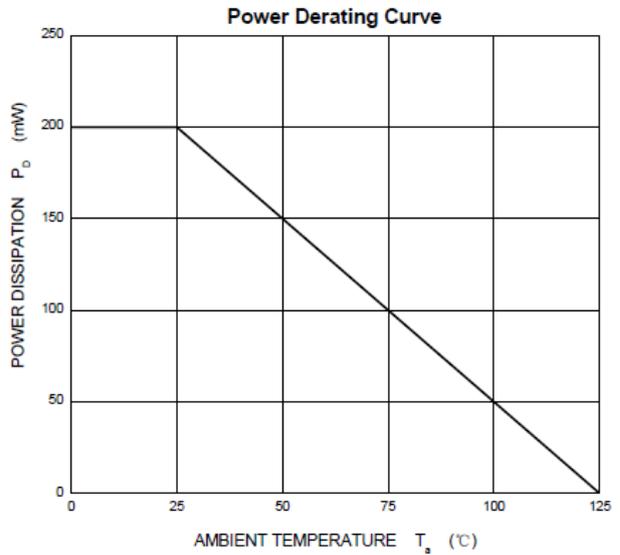
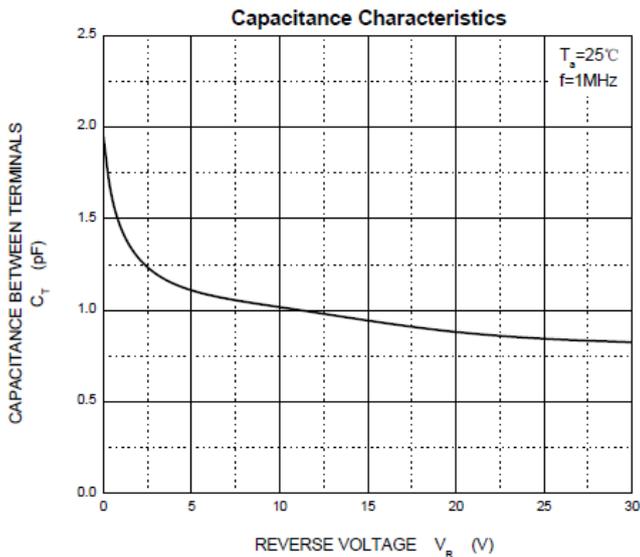
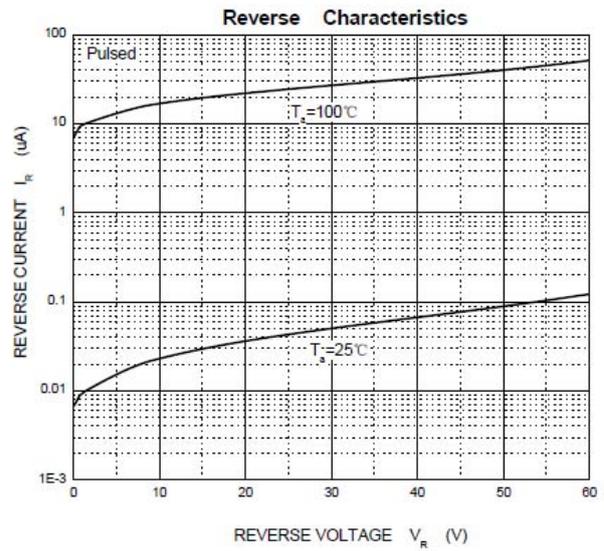
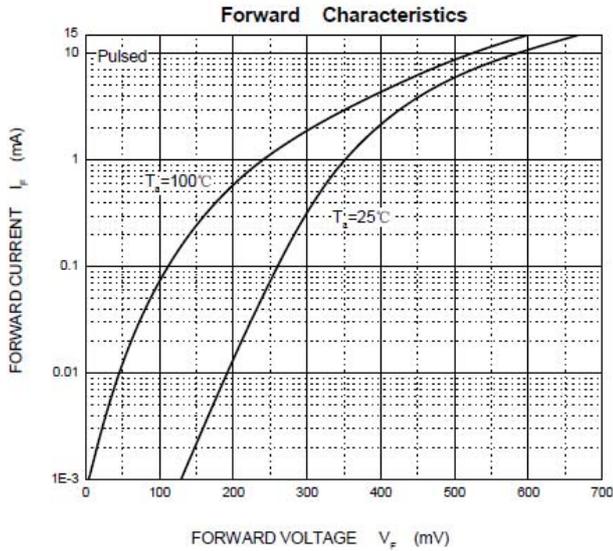


# SD101AWS THRU SD101CWS

## 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

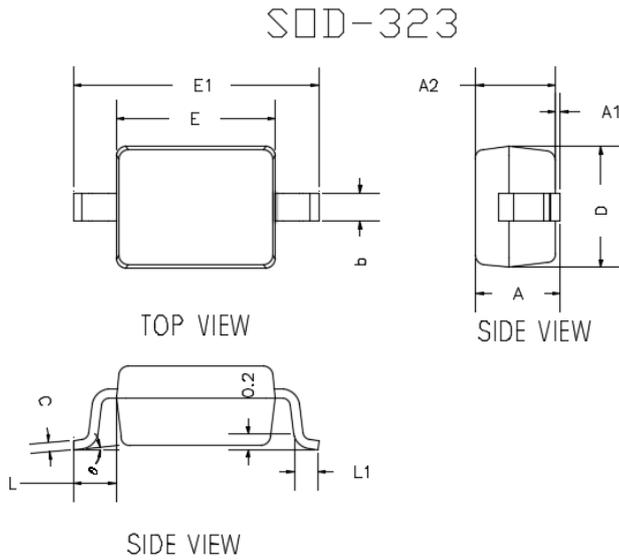
## Characteristics (Typical)





# SD101AWS THRU SD101CWS

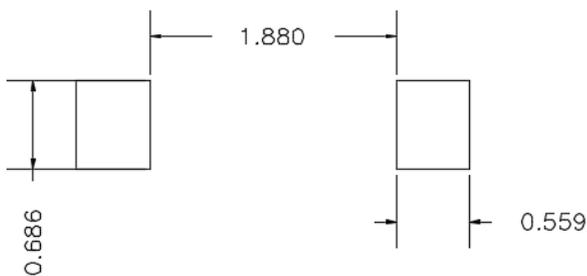
## ■ Outline Dimensions



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
θ	0°	8°	0°	8°

- NOTES:
- All dimensions are in millimeters (mm) unless otherwise specified.  
[所有尺寸均以毫米为单位，除非另有说明]
  - General tolerances: ±0.10mm unless otherwise specified.  
[通用公差为±0.10mm，除非另有说明]
  - Dimensions and tolerances per ASME Y14.5M-2018.  
[尺寸和公差遵循 ASME Y14.5M-2018 标准]
  - All dimensions shown are exclusive of burrs and gate residues.  
Burrs and gate vestiges shall not exceed 0.15 mm in maximum.  
[所有尺寸均不包括毛刺和浇口残留。毛刺与浇口残留的尺寸最大不得超过 0.15mm]
  - Dimension b does not include dambar protrusion of max 0.100 mm per side.  
[尺寸b不包括单边最大0.100 MM的中筋凸出部分]
  - Dimensions D and E are the overall extreme outer dimensions of the mold compound. These dimensions exclude mold flash, lead flash, protrusions and burrs but include the maximum allowable mold mismatch.  
[D和E是塑封体的外部极限尺寸，不包括包封溢料、内引线溢料、凸出部分以及胶体毛刺，但是包含了包封错位最大尺寸]
  - Formed leads shall be planar with respect to one another within a maximum of 0.076 mm relative to the seating plane.  
[成型的管脚应为同一平面，共面性最大为0.1mm]

## ■ Soldering Footprint



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



## SD101AWS THRU SD101CWS

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### Disclaimer

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