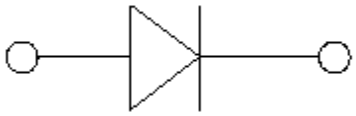
Small Signal Schottky Diode





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=10uA	SD101AW	60
				SD101BW	50
				SD101CW	40
Forward continuous current	I_{FM}	mA	T_a=25°C	15	
Repetitive Peak Forward Current	I_{FRM}	A	tp=1ms，δ=0.25	0.07	
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（T_a=25℃ Unless otherwise specified）

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

■Ordering Information (Example)

PREFERED 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)

Fig 1：P_D-Ta Curve

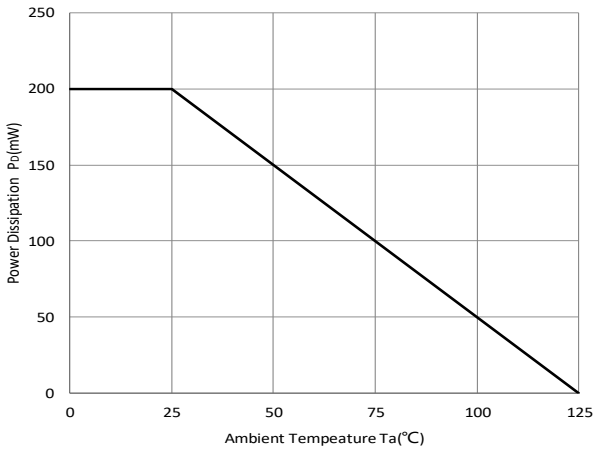


Fig 2：Capacitance Capability

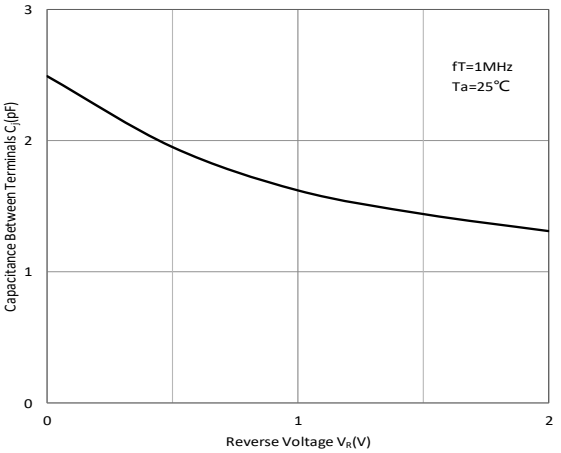


Fig 3：Typical Forward Characteristics

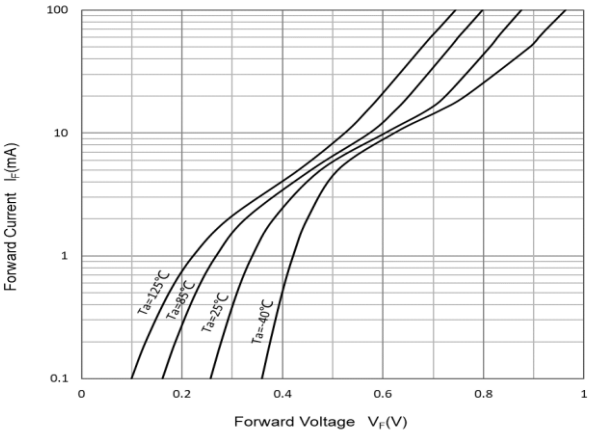
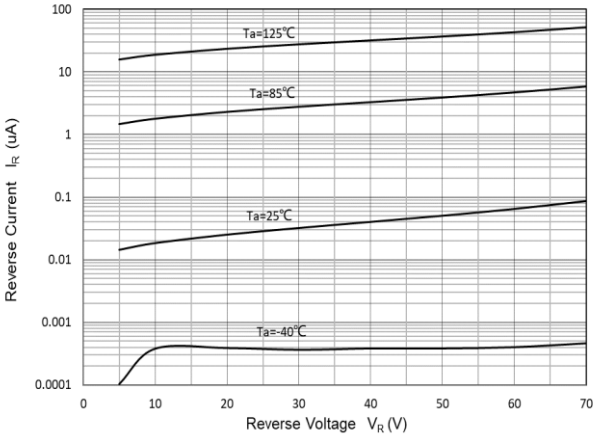
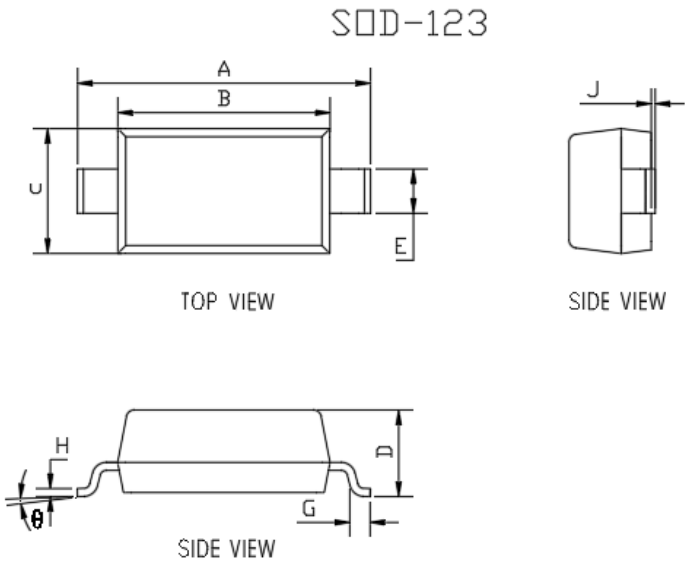


Fig 4：Typical Reverse Characteristics

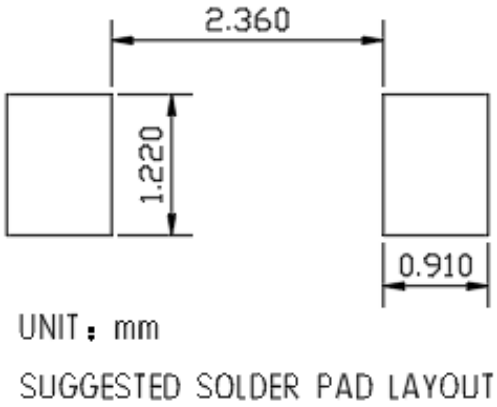


■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MN	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
θ	0	8°	0	8°

■ Soldering Footprint



Note:
1. 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]
2. General tolerances: ±0.10mm unless otherwise specified.
[通用公差为±0.10mm，除非另有说明]
3. Dimensions and tolerances per ASME Y14.5M-2018.
[尺寸和公差遵循 ASME Y14.5M-2018 标准]
4.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]
5.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]
6.Dimensions B and C 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.
[B和C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的最大尺寸]

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