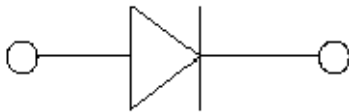


Small Signal Schottky Diode



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	$^\circ C$		125	
Storage temperature range	T_{stg}	$^\circ C$		-55 to +150	
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	$^\circ C / W$		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	μA	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	

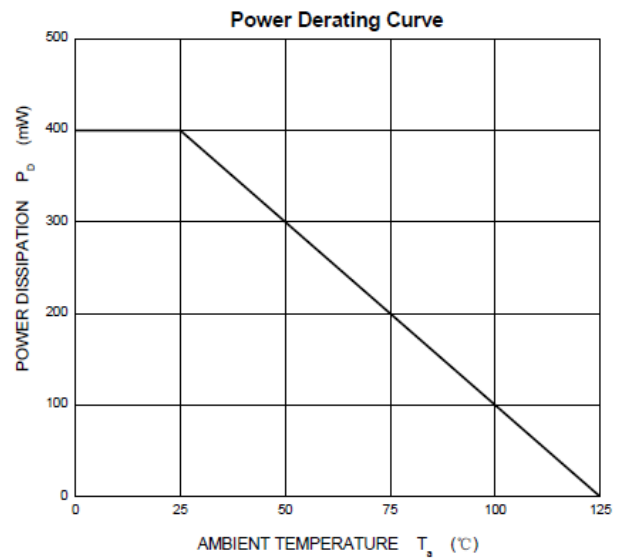
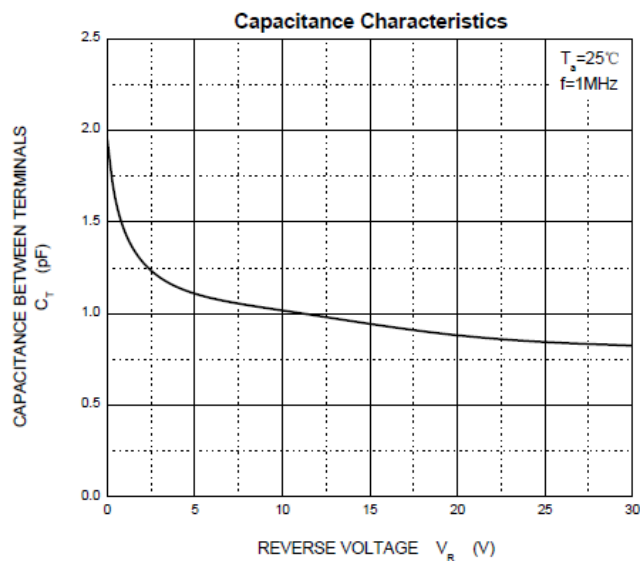
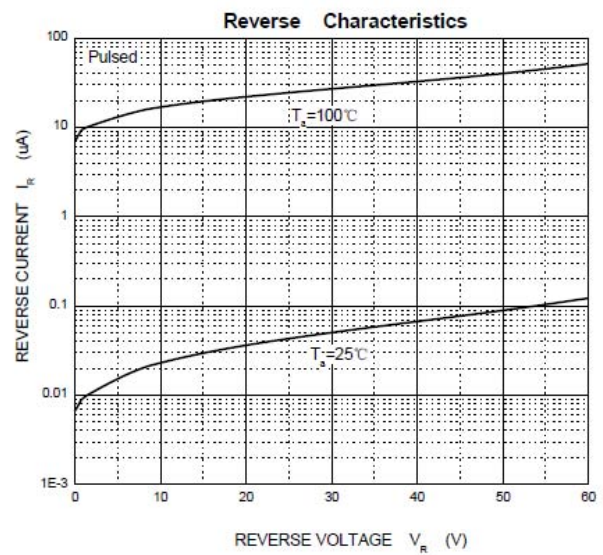
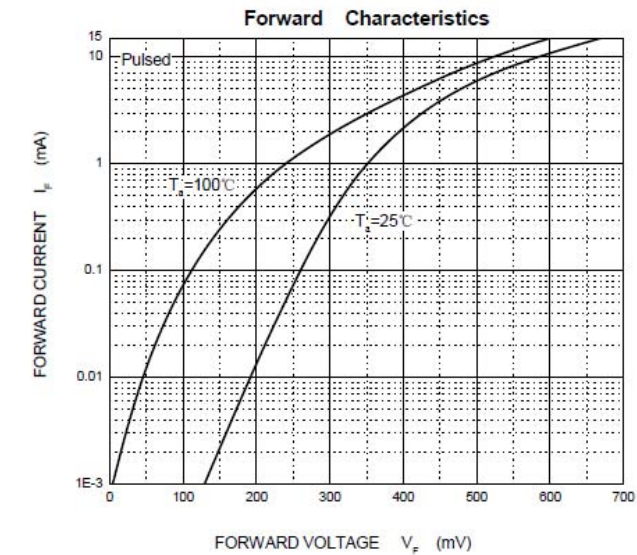


SD101AW THRU SD101CW

■ 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

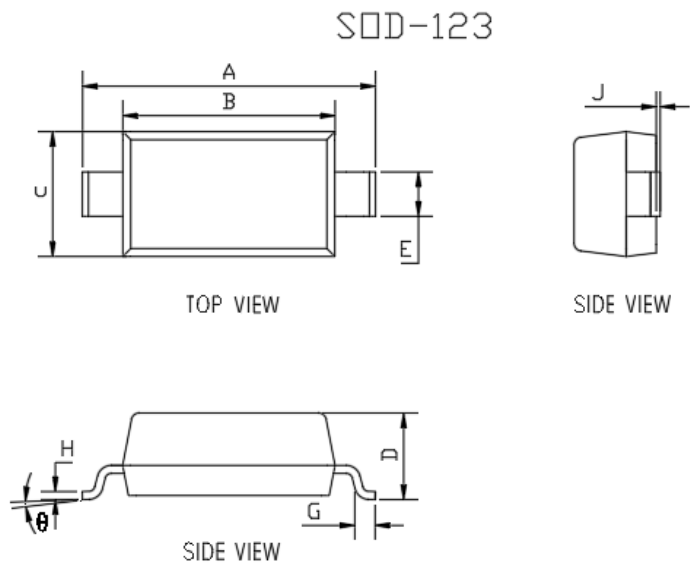
■ Characteristics (Typical)





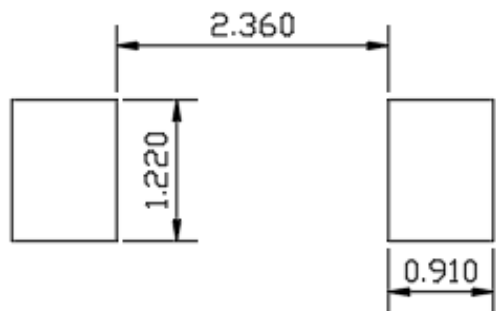
SD101AW THRU SD101CW

■ Outline Dimensions



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MM	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



UNIT: mm

SUGGESTED SOLDER PAD LAYOUT



SD101AW THRU SD101CW

Disclaimer

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