

## Excellent Integrated System Limited

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[Micro Commercial Components \(MCC\)](#)  
[SD101AW-TP](#)

For any questions, you can email us directly:

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**M.C.C.**

Micro Commercial Components



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## Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- For general purpose applications
- The SD101AW to SD101CW series is a Metal-on-silicon Schottky barrier device which is protected by a PN junction Guard ring.
- Low Forward Voltage Drop
- Halogen free available upon request by adding suffix "-HF"

## Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Polarity: Indicated by Cathode Band
- Marking : SD101AW---S1 ; SD101BW---S2; SD101CW---S3

## Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	SD101AW	SD101BW	SD101CW
Peak Repetitive Reverse Voltage	$V_{RRM}$			
Working Peak Reverse Voltage	$V_{RWM}$	60V	50V	40V
DC Blocking Voltage	$V_R$			
Forward Continuous Current	$I_F$	15mA		
Maximum single cycle surge 10us square wave	$I_{FSM}$	2.0A		
Power Dissipation(Note 1)	$P_d$	400mW		
Thermal Resistance, Junction to Ambient	$R$	300K/W		
Junction Temperature	$T_j$	125°C		
Storage Temp. Range	$T_{STG}$	-55 to +150°C		

## Electrical Characteristics @ 25°C Unless Otherwise Specified

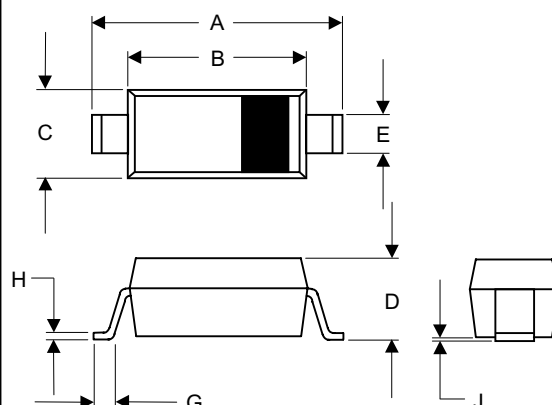
Characteristic	Symbol	Max	Test Condition
Leakage Current	$I_R$	200nA	$V_R=50V$
		200nA	$V_R=40V$
		200nA	$V_R=30V$
Maximum Forward Voltage Drop	$V_F$	0.41V	$I_F=1mA$
		0.4V	$I_F=15mA$
		.39V	
		1V	
		0.95V	
		0.9V	
Junction Cap.	$C_j$	2.0pF	$V_R=0V, f=1.0MHz$
		2.1pF	
		2.2pF	
Reverse Recovery Time	$t_{rr}$	1ns	$I_F=I_R=5mA$ , recover to 0.1 $I_R$

Notes: 1. Valid provided that electrodes are kept at ambient temperature

# SD101AW THRU SD101CW

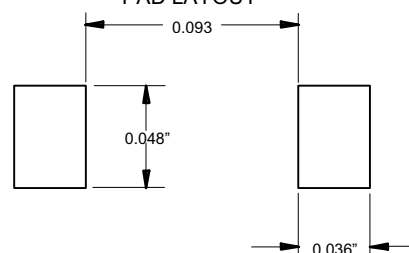
## Small Signal Schottky Diodes

### SOD-123



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.112	2.55	2.85	
C	.055	.071	1.40	1.80	
D	-----	.053	-----	1.35	
E	.012	.031	0.30	.78	
G	.006	-----	0.15	-----	
H	-----	.01	-----	.25	
J	-----	.006	-----	.15	

### SUGGESTED SOLDER PAD LAYOUT





TM

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## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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