

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

Mechanical Data

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 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			
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	

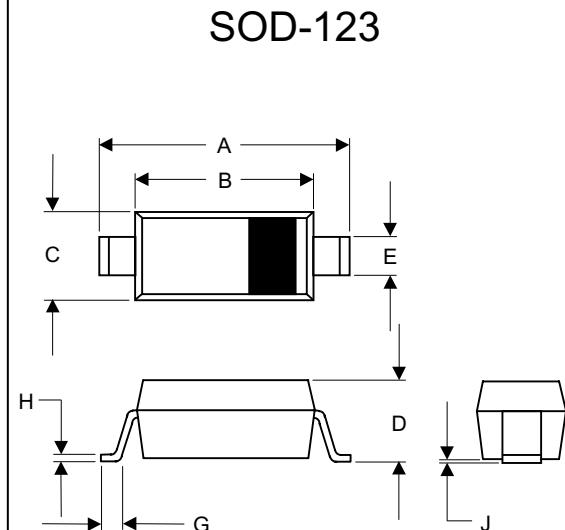
Electrical Characteristics @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Max	Test Condition
Leakage Current	SD101AW	200nA	$V_R=50V$
	SD101BW	200nA	$V_R=40V$
	SD101CW	200nA	$V_R=30V$
Maximum Forward Voltage Drop	SD101AW	0.41V	
	SD101BW	0.4V	
	SD101CW	.39V	$I_F=1mA$
	SD101AW	1V	$I_F=15mA$
	SD101BW	0.95V	
	SD101CW	0.9V	
Junction Cap.	SD101AW	2.0pF	$V_R=0V, f=1.0MHz$
	SD101BW	2.1pF	
	SD101CW	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

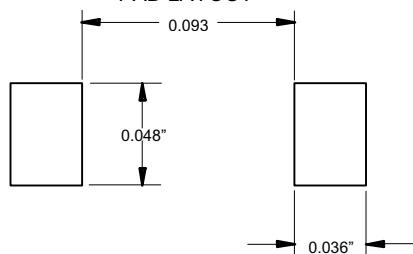
SD101AW THRU SD101CW

Small Signal Schottky Diodes



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

Micro Commercial Components

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . *Micro Commercial Components Corp.* does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp.* and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by *Micro Commercial Components Corp.* are not intended for use in Medical, Aerospace or Military Applications.