

Micro Commercial Components



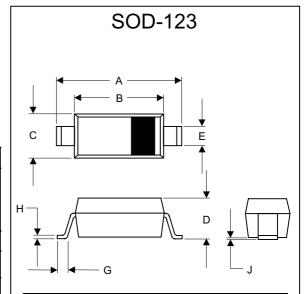
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

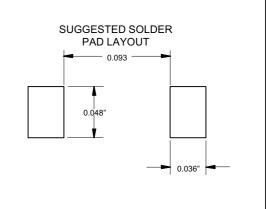
## **SD101AW THRU SD101CW**

# **Small Signal**

# **Schottky Diodes**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
Α	.140	.152	3.55	3.85	
В	.100	.112	2.55	2.85	
С	.055	.071	1.40	1.80	
D		.053		1.35	
Е	.012	.031	0.30	.78	
G	.006		0.15		
Н		.01		.25	
J		.006		.15	



### **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
- 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	VRRM			
Working Peak Reverse Voltage	VRWM	60V	50V	40V
DC Blocking Voltage	VR			
Forward Continuous Current	lF		15mA	
Maximum sigle cycle surge 10us square wave	I <sub>FSM</sub>		2.0A	
Power Dissipation(Note 1)	Pd		400mW	
Thermal Resistance, Junction to Ambient	R		300K/W	
Junction Tmperature	Tj		125 <sup>°</sup> C	
Storage Temp. Range	Тѕтс	T	55 to +150°	O

#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Max	Test Condition	
Leakage Current	SD101AW		200nA	V <sub>R</sub> =50V
	SD101BW	lR	200nA	V <sub>R</sub> =40V
	SD101CW		200nA	V <sub>R</sub> =30V
Maximum Forward	SD101AW		0.41V	
Voltage Drop	SD101BW		0.4V	
	SD101CW	VF	.39V	I <sub>F</sub> =1mA
	SD101AW	VF	1V	I <sub>F</sub> =15mA
	SD101BW		0.95V	
	SD101CW		0.9V	
Junction Cap.	SD101AW		2.0pF	
·	SD101BW	Cj	2.1pF	V <sub>R</sub> =0V, f=1.0MHz
	SD101CW		2.2pF	
Daviana Daasvami Ti	4	1	I <sub>F</sub> =I <sub>R</sub> =5mA, recover	
Reverse Recovery Time		t <sub>rr</sub>	1ns	to 0.11R

1. Valid provided that electrodes are kept at ambient temperature



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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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