

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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SD101AWS **THRU SD101CWS**

Small Signal Schottky Diodes

Features

- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information) Low Reverse Recovery Time
- Low Reverse Capacitance
- Low Forward Voltage Drop
- **Guard Ring Construction for Transient Protection**

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Polarity: Indicated by Cathode Band
- Marking: SD101AWS---S1; SD101BWS---S2; SD101CWS---S3

Maximum Ratings @ 25°C Unless Otherwise Specified

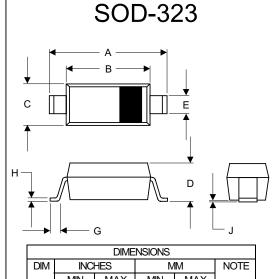
Characteristic	Symbol	SD101AWS	SD101BWS	SD101CWS
Peak Repetitive Reverse Voltage	VRRM			
Working Peak Reverse Voltage	VRWM	60V 50V 40V		40V
DC Blocking Voltage	VR			
RMS Reverse Voltage	V _{R(RMS)}	42V	35V	28V
Maximum sigle cycle surge 10us square wave	Ігѕм	2.0A		
Power Dissipation(Note 1)	Pd	400mW		
Thermal Resistance, Junction to Ambient	R	650° C/W		
Operating Junction Temp. Range	Tj	-55 to +125°C		
Storage Temp. Range	Тѕтѕ	-55 to +150°C		

Electrical Characteristics @ 25°C Unless Otherwise Specified

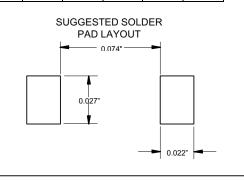
Charateristic		Symbol	Max	Test Condition
Leakage Current	SD101AWS		200nA	V _R =50V
	SD101BWS	IR	200nA	V _R =40V
	SD101CWS		200nA	V _R =30V
Maximum Forward	SD101AWS		0.41V	
Voltage Drop	SD101BWS		0.4V	
	SD101CWS	VF	.39V	I _F =1mA
	SD101AWS	V F	1V	I _F =15mA
	SD101BWS		0.95V	
	SD101CWS		0.9V	
Junction Cap.	SD101AWS		2.0pF	
	SD101BWS	Cj	2.1pF	V _R =0V, f=1.0MHz
	SD101CWS		2.2pF	
Davaras Bassyany Tima		t _{rr}	1ns	I _F =I _R =5mA, recover
Reverse Recovery	everse Recovery Time			to 0.11R

Note: 1

Valid provided that electrodes are kept at ambient temperature



DIIVIENSIONS					
DIM	INCHES		N	NOTE	
	MIN	MAX	MIN	MAX	
Α	.090	.107	2.30	2.70	
В	.063	.071	1.60	1.80	
С	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
Е	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
Н	.004	.010	0.10	0.25	
J		.006		0.15	



SD101AWS thru SD101CWS



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Figure 1. Typical variation of forward. current vs.fwd.

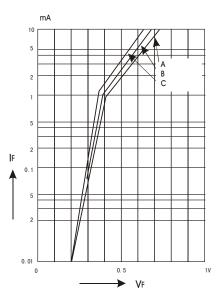


Figure 3. Typical variation of reverse current at versus temperature

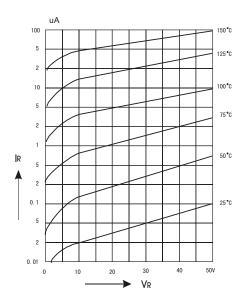


Figure 2. Typical forward conduction curve

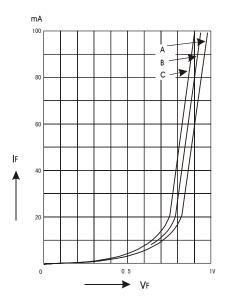
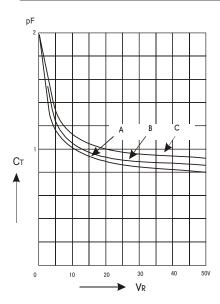


Figure 4. Typical capacitance curve as a function of reverse voltage





Ordering Information:

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

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