

Micro Commercial Components

Pb

Micro Commercial Components 20736 Marilla Street Chatsworth

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SD101AWS THRU SD101CWS

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
- Halogen free available upon request by adding suffix "-HF"

Small Signal Schottky Diodes

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

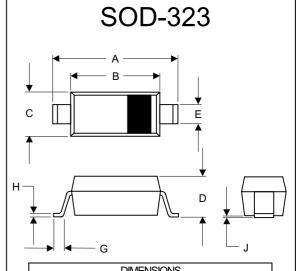
Characteristic	Symbol	SD101AWS	SD101BWS	SD101CWS
Peak Repetitive Reverse Voltage	VRRM			
Working Peak Reverse Voltage	e VRWM 60V 50V 40V			
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{R(RMS)}	42V	35V	28V
Maximum sigle cycle surge 10us square wave	Ігѕм	2.0A		
Power Dissipation(Note 1)	Pd	400mW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

Electrical Characteristics @ 25°C Unless Otherwise Specified

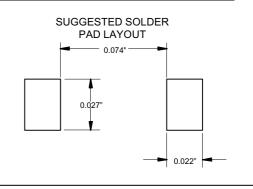
Charateristic		Symbol	Max	Test Condition
Leakage Current	SD101AWS		200nA	V _R =50V
	SD101BWS	lR	200nA	V _R =40V
	SD101CWS		200nA	V _R =30V
Maximum Forward	SD101AWS		0.41V	
Voltage Drop	SD101BWS		0.4V	
	SD101CWS	VF	.39V	I _F =1mA
	SD101AWS	VF	1V	I _F =15mA
	SD101BWS		0.95V	
	SD101CWS		0.9V	
Junction Cap.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



Valid provided that electrodes are kept at ambient temperature



DIIVIENSIONS					
DIM	INCHES		MM		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. Voltage

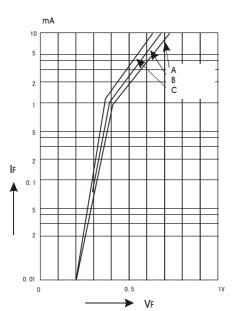


Figure 3. Typical variation of reverse current at versus temperature

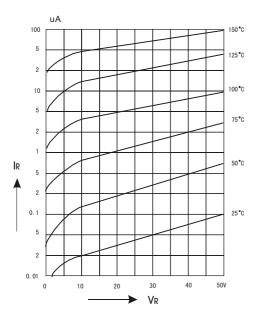


Figure 2. Typical forward conduction curve

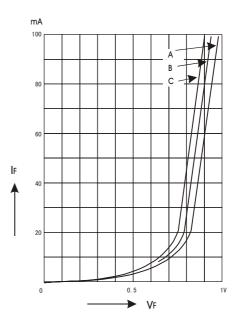
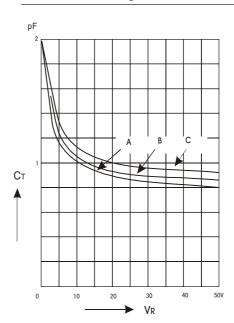


Figure 4. Typical capacitance curve as a function of reverse voltage





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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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