

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
- 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: SD101AWS---S1; SD101BWS---S2; SD101CWS---S3

Maximum Ratings @ 25°C Unless Otherwise Specified

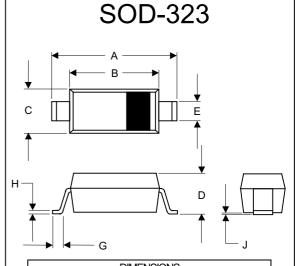
Characteristic	Symbol	SD101AWS	SD101BWS	SD101CWS
Peak Repetitive Reverse Voltage	Vrrm			
Working Peak Reverse Voltage	VRWM	60V	50V	40V
DC Blocking Voltage	V_{R}			
RMS Reverse Voltage	V _{R(RMS)}	42V	35V	28V
Maximum sigle cycle surge 10us square wave	Ігѕм	2.0A		
Power Dissipation(Note 1)	Pd	400mW		
Thermal Resistance, Junction to Ambient	R	650° C/W		
Operating Junction Temp. Range	Tj	-55 to +125°C		0
Storage Temp. Range	Тѕтс	-55 to +150°C		

Electrical Characteristics @ 25°C Unless Otherwise Specified

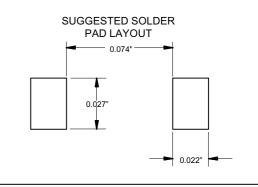
Charateristic		Symbol	Max	Test Condition
Leakage Current	SD101AWS SD101BWS	l _R	200nA 200nA	V _R =50V V _R =40V
	SD101CWS		200nA	V _R =30V
Maximum Forward Voltage Drop	SD101AWS SD101BWS SD101CWS SD101AWS SD101BWS SD101CWS	VF	0.41V 0.4V .39V 1V 0.95V 0.9V	I _F =1mA I _F =15mA
Junction Cap.	SD101AWS SD101BWS SD101CWS	Cj	2.0pF 2.1pF 2.2pF	V _R =0V, f=1.0MHz
Reverse Recovery Time		t _{rr}	1ns	I _F =I _R =5mA, recover to 0.1I _R

Note: 1

Valid provided that electrodes are kept at ambient temperature



		DIMENSIONS				
	DIM	INCHES		N	NOTE	
		MIN	MAX	MIN	MAX	
	Α	.090	.107	2.30	2.70	
	В	.063	.071	1.60	1.80	
ĺ	O	.045	.053	1.15	1.35	
	D	.031	.045	0.80	1.15	
	Е	.010	.016	0.25	0.40	
ĺ	Ŋ	.004	.018	0.10	0.45	
	Η	.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

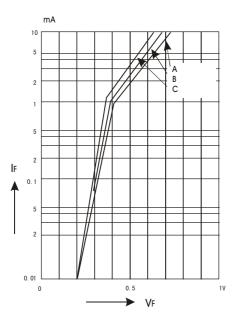


Figure 3. Typical variation of reverse current at versus temperature

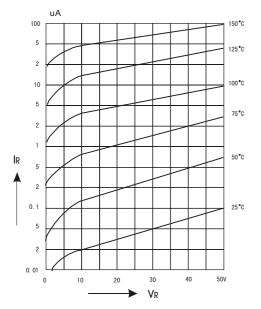


Figure 2. Typical forward conduction curve

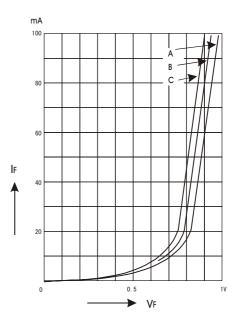
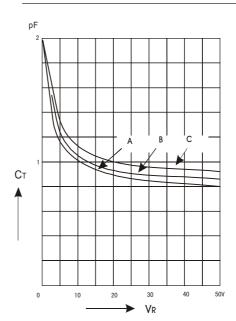


Figure 4. Typical capacitance curve as a function of reverse voltage





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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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