



Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

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"

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	V_{RRM}			
Working Peak Reverse Voltage	V_{RWM}	60V	50V	40V
DC Blocking Voltage	V_R			
RMS Reverse Voltage	$V_{R(RMS)}$	42V	35V	28V
Maximum single cycle surge 10us square wave	I_{FSM}		2.0A	
Power Dissipation (Note 1)	P_d		400mW	
Thermal Resistance, Junction to Ambient	R		650°C/W	
Operating Junction Temp. Range	T_j		-55 to +125°C	
Storage Temp. Range	T_{STG}		-55 to +150°C	

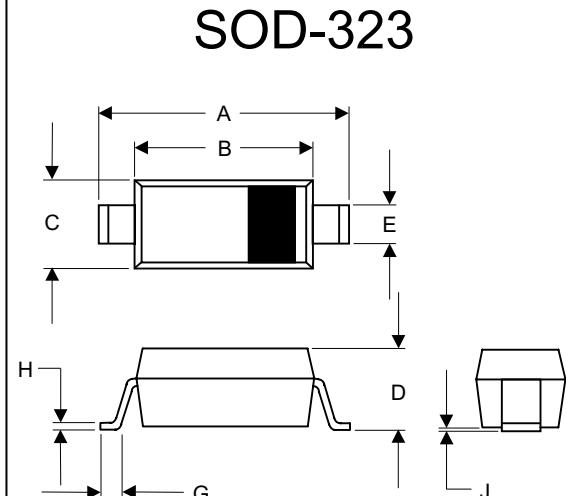
Electrical Characteristics @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Max	Test Condition
Leakage Current	I_R	200nA	$V_R=50V$
		200nA	$V_R=40V$
		200nA	$V_R=30V$
Maximum Forward Voltage Drop	V_F	0.41V	
		0.4V	
		.39V	$I_F=1mA$
		1V	$I_F=15mA$
		0.95V	
		0.9V	
Junction Cap.	C_j	2.0pF	$V_R=0V, f=1.0MHz$
		2.1pF	
		2.2pF	
Reverse Recovery Time	t_{rr}	1ns	$I_F=I_R=5mA$, recover to 0.1 I_R

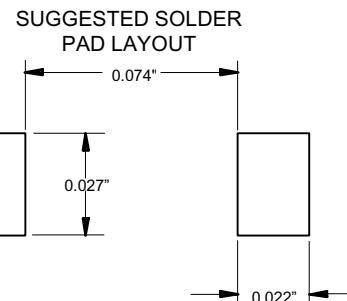
Note: 1

Valid provided that electrodes are kept at ambient temperature

Small Signal Schottky Diodes



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.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

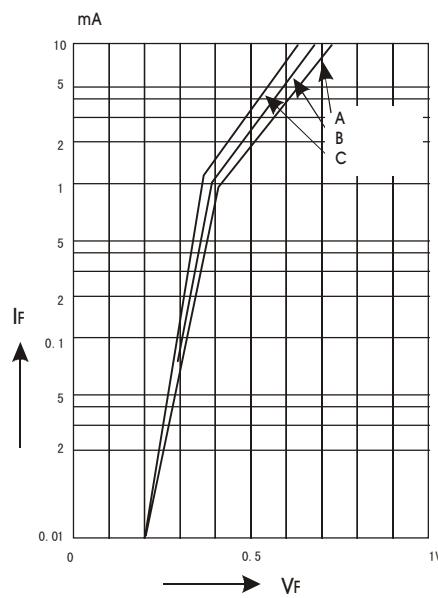


Figure 3.Typical variation of reverse current at versus temperature

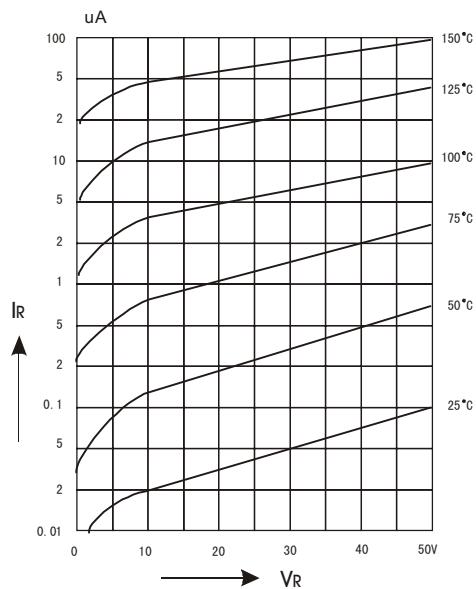


Figure 2. Typical forward conduction curve

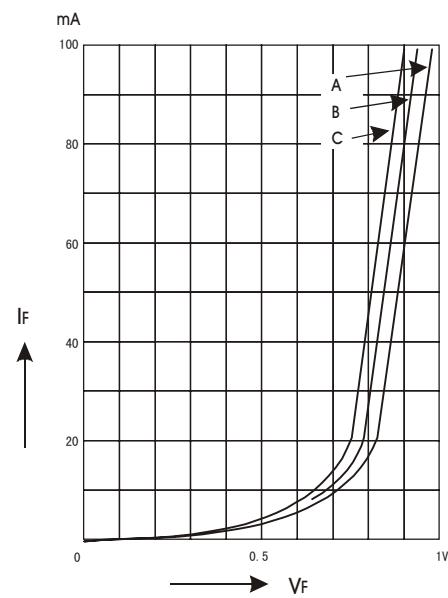
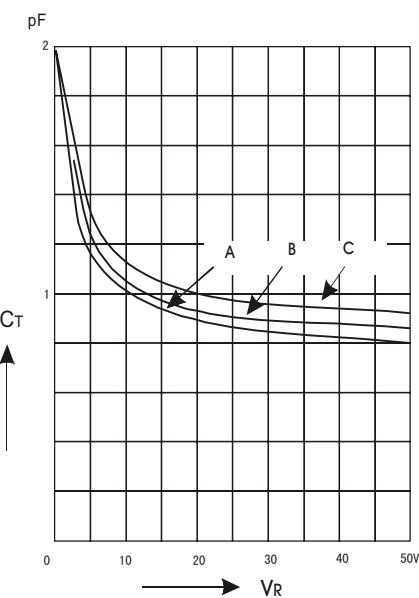


Figure 4. Typical capacitance curve as a function of reverse voltage





TM

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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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Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692
Email amall@ameya360.com
QQ 800077892
Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333
Email mkt@ameya360.com