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Part Number	SD101CW
product family	SMALL SIGNAL SCHOTTKY DIODES
package type	SOD-123
VRM(PRV)	40V
Ifsm	2.0A
IF(AV)	
@Vf	0.39V
@If	1mA
Trr	1.0nS
IR	200nA
@VR	40V
Package Qty	Tape : 3K/Reel , 120K/Ctn;

This product is listed under the following categories where you may find similar products:

[Diodes](#)

[Small Signal Schottky Diodes](#)

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

Mechanical Data

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 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

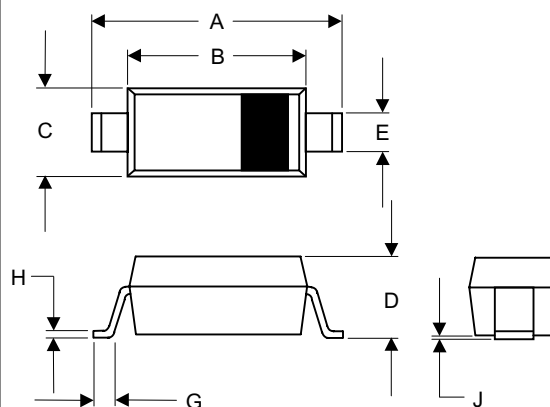
Characteristic	Symbol	Max	Test Condition
Leakage Current	I_R	200nA	$V_R=50V$
		200nA	$V_R=40V$
		200nA	$V_R=30V$
Maximum Forward Voltage Drop	V_F	0.41V	$I_F=1mA$
		0.4V	$I_F=15mA$
		.39V	
		1V	
		0.95V	
		0.9V	
Junction Cap.	C_j	2.0pF	$V_R=0V, f=1.0MHz$
		2.1pF	
		2.2pF	
Reverse Recovery Time	t_{rr}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

Note: 1

Valid provided that electrodes are kept at ambient temperature

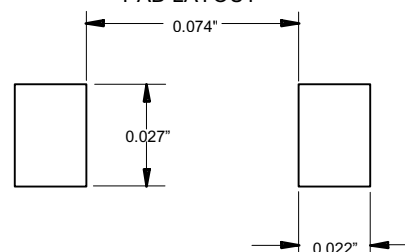
Small Signal Schottky Diodes

SOD-323



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	

SUGGESTED SOLDER PAD LAYOUT





Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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