



Micro Commercial Components



Micro Commercial Components  
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## SD107WS

## Schottky Diodes

### Features

- Halogen free available upon request by adding suffix "-HF"
- Low turn-on voltage
- Fast switching
- Microminiature plastic package
- This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharge.
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)

### Maximum Ratings

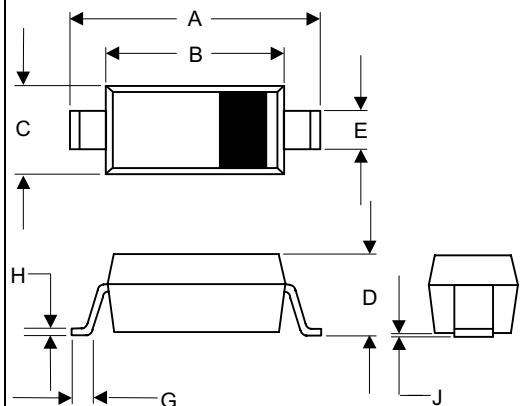
- Case: SOD-323 plastic case
- Operating Temperature:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Storage Temperature:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Thermal Resistance;  $500^{\circ}\text{C/W}$  Junction To Ambient
- Marking Code: SG
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Electrical Characteristics @ $25^{\circ}\text{C}$ Unless Otherwise Specified

Continuous Reverse Voltage	$V_R$	30V	
Forward Current	$I_F$	100mA	
Forward Surge Current	$I_{FSM}$	0.75A	$t_p=10\text{ms}$
Minimum Reverse Breakdown Voltage	$V_{BR}$	30V	$I_R=100\mu\text{A}$
Maximum Leakage Current	$I_R$	1000nA	$V_R=25\text{V}$
Maximum Forward Voltage	$V_F$	550mV	$I_F=50\text{mA}$
		800mV	$I_F=100\text{mA}$
Typical Forward Voltage		300mV	$I_F=2.0\text{mA}$
		360mV	$I_F=15\text{mA}$
		470mV	$I_F=50\text{mA}$
		580mV	$I_F=100\text{mA}$
Maximum Junction Capacitance	$C_{TOT}$	7.0pF	Measured at $f=1.0\text{MHz}$ $V_R=10\text{V}$
Power Dissipation	$P_{TOT}$	$250\text{mW}^{(1)}$	$T_C=25^{\circ}\text{C}$

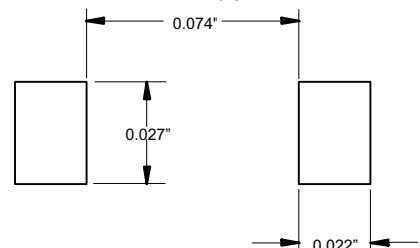
Notes: 1. Valid provided that electrodes are kept at ambient temperature

### SOD-323



DIMENSIONS					
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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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