

SD107WS

Schottky Diodes

Features

- 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

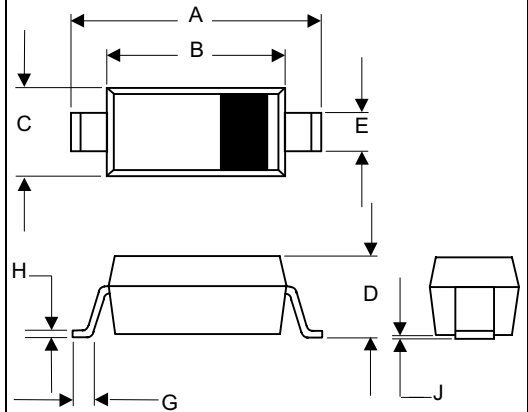
- Case: SOD-323 plastic case
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Thermal Resistance; 500°C/W Junction To Ambient
- Marking Code: SG
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Electrical Characteristics @ 25°C Unless Otherwise Specified

Continuous Reverse Voltage	V _R	30V	
Forward Current	I _F	100mA	
Forward Surge Current	I _{FSM}	0.75A	tp=10ms
Minimum Reverse Breakdown Voltage	V _{BR}	30V	I _R =100uA
Maximum Leakage Current	I _R	1000nA	V _R =25V
Maximum Forward Voltage	V _F	550mV	I _F =50mA
		800mV	I _F =100mA
Typical Forward Voltage		300mV	I _F =2.0mA
		360mV	I _F =15mA
		470mV	I _F =50mA
		580mV	I _F =100mA
Maximum Junction Capacitance	C _{TOT}	7.0pF	Measured at f=1.0MHz V _R =10V
Power Dissipation	P _{TOT}	250mW ¹⁾	T _C =25°C

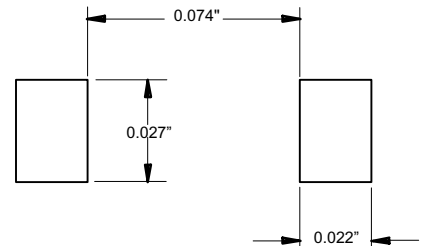
Notes: 1. Valid provided that electrodes are kept at ambient temperature

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