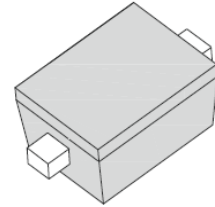


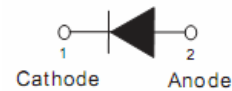
Two Terminals Schottky Barrier Diodes

Features

- Very low VF
- Low capacitance
- Extremely fast switching speed
- RoHS compliant



SOD-323



Mechanical Data

Case:	SOD-323, Plastic
Terminals:	Solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes the cathode end
Weight:	0.008 grams

Maximum Ratings *(T_{Ambient}=25°C unless noted otherwise)*

Symbol	Description	SD107WS	Unit	Conditions
	Marking	S9		
V_{RM}	Reverse Voltage	30	V	
V_RRM	Peak Repetitive Reverse Voltage	30	V	
I_{F(AV)}	Max. Average Rectified Current	200	mA	
I_FSM	Peak Forward Surge Current	0.75	A	At t=10ms
P_D	Power Dissipation	200	mW	Note 1
R_{thJA}	Thermal Resistance	625	°C /W	
T_J	Junction Temperature	150	°C	
T_{STG}	Storage Temperature Range	-55 to +150	°C	

Two Terminals Schottky Barrier Diodes

SD107WS

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	Min.	Typ.	Max.	Unit	Conditions
V(BR)	Reverse Breakdown Voltage	30	-	-	V	$I_R=10\mu A$
V_F	Max. Forward Voltage	-	-	0.36	V	$I_F=2mA$
		-	-	0.55		$I_F=50mA$
		-	-	0.80		$I_F=100mA$
I_R	Max. Reverse Current	-	-	1.0	μA	$V_R=25V$
C_J	Typical Junction Temperature	-	3.0	7.0	pF	$V_R=10V$, $f=1MHz$

Note:

- 1.FR-4 Board=70x60x1mm
- 2.Ratings at 25 ° C ambient temperature unless other wise specified
- 3.Single Phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Typical Characteristics Curves

Fig.1- Typical Instantaneous Forward Characteristics

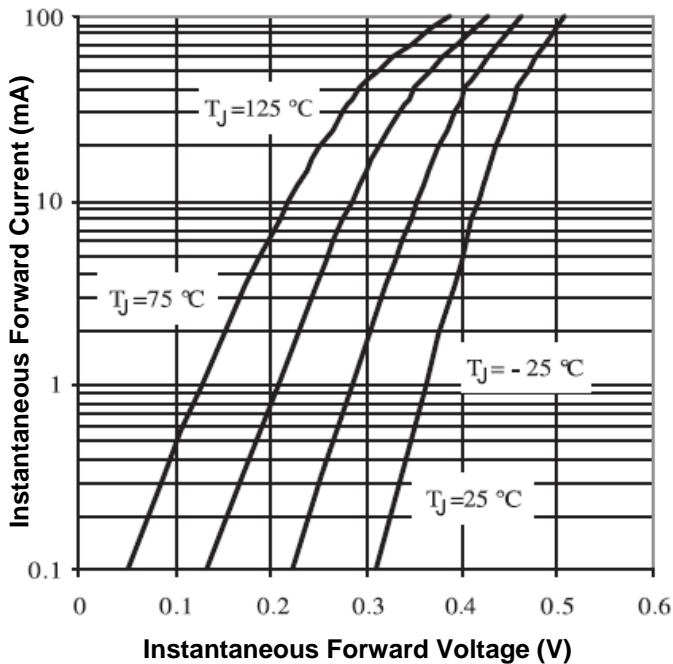
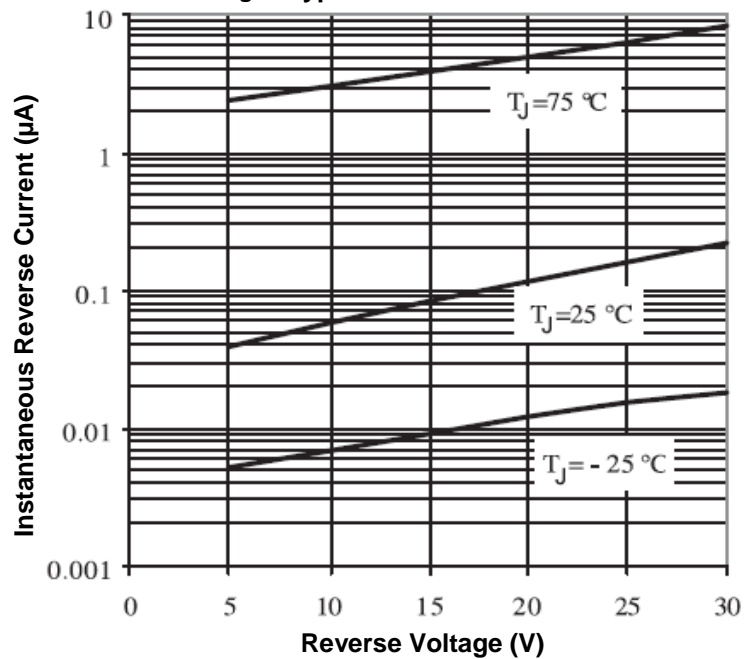


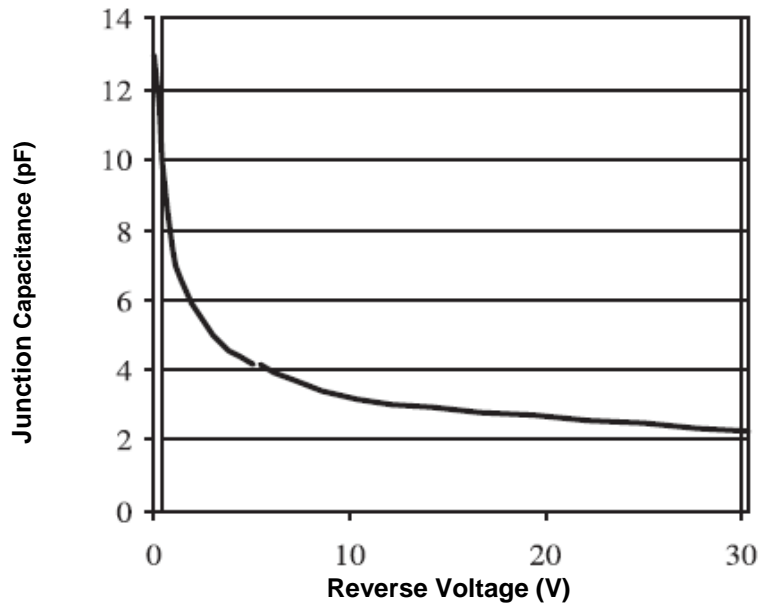
Fig.2- Typical Reverse Current



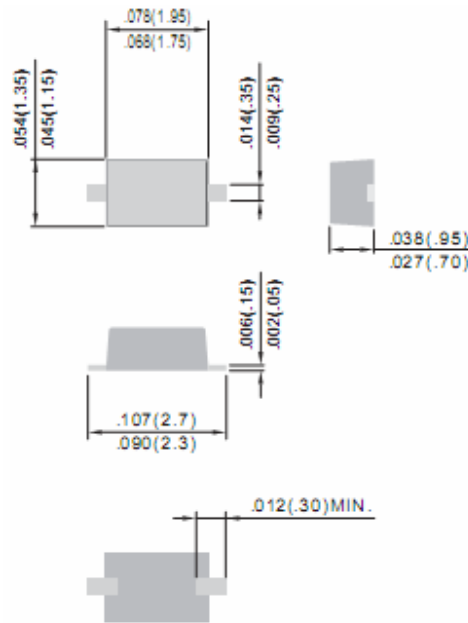
Two Terminals Schottky Barrier Diodes

SD107WS

Fig.3- Typical Junction Capacitance



Dimensions in inch (mm)



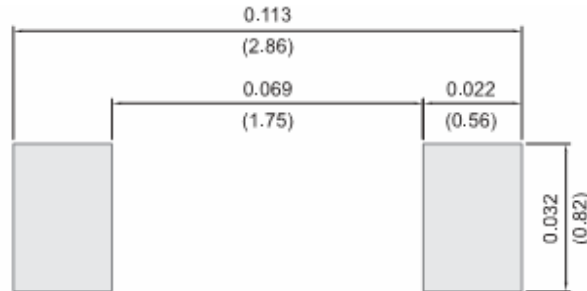
SOD-323

TAITRON
components incorporated

Two Terminals Schottky Barrier Diodes

SD107WS

Mounting Pad Layout in inch (mm)



Packing Information

Tape and Reel --- 5K per 7" Plastic Reel

12K per 13" Plastic Reel

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