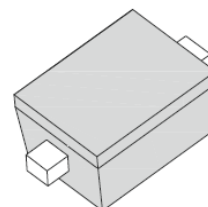


Two Terminals Schottky Barrier Diodes

Features

- Low turn-on voltage
- 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	SD103AWS	SD103BWS	SD103CWS	Unit	Conditions
	Marking	S6	S7	S8		
V_{RRM}	Peak Repetitive Reverse Voltage	40	30	20	V	
V_{RMS}	Max. RMS Voltage	28	21	14	V	
V_{DC}	Max. DC Blocking Voltage	40	30	20	V	
I_{F(AV)}	Max. Average Rectified Current	350			mA	T _A =75 °C
I_{FSM}	Peak Forward Surge Current	2			A	At t=0.01ms
R_{thJA}	Thermal Resistance	300			°C /W	
T_J	Junction Temperature	125			°C	
T_{STG}	Storage Temperature Range	-55 to +125			°C	

Two Terminals Schottky Barrier Diodes

SD103AWS/BWS/CWS

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

Symbol	Description	SD103AWS	SD103BWS	SD103CWS	Unit	Conditions
V_F	Max. Forward Voltage	0.37			V	I _F =20mA
		0.60				I _F =200mA
I_R	Max. Reverse Current	5.0	-	-	μA	V _R =30V
		-	5.0	-		V _R =20V
		-	-	5.0		V _R =10V
C_J	Typical Junction Temperature	50			pF	V _R =0V, f=MHz

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

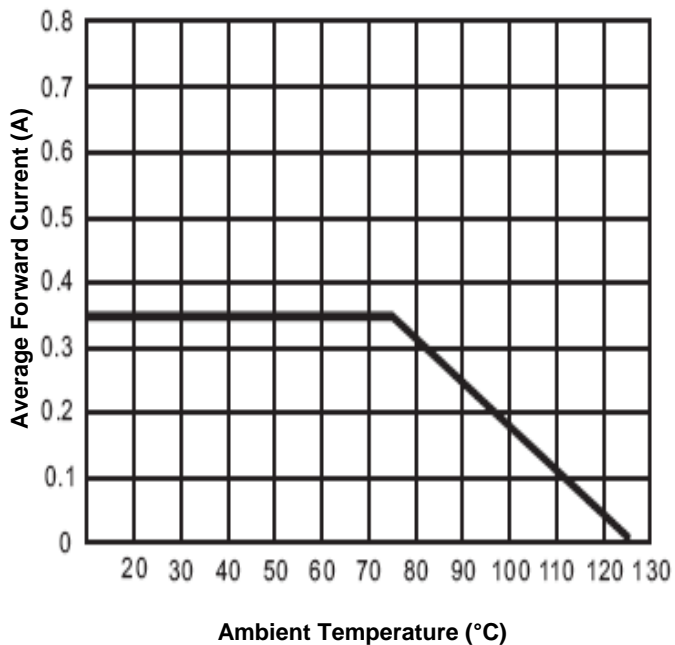
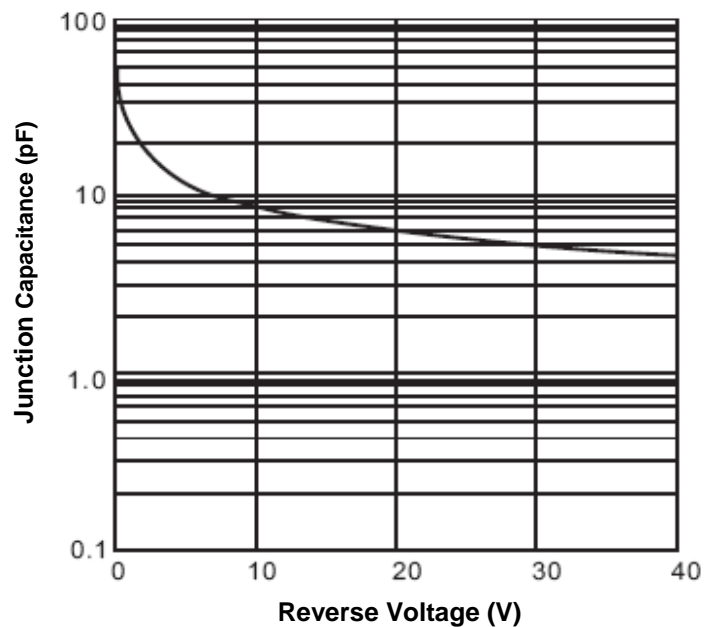


Fig.2- Typical Junction Capacitance



Two Terminals Schottky Barrier Diodes

SD103AWS/BWS/CWS

Fig.3- Typical Instantaneous Forward Characteristics

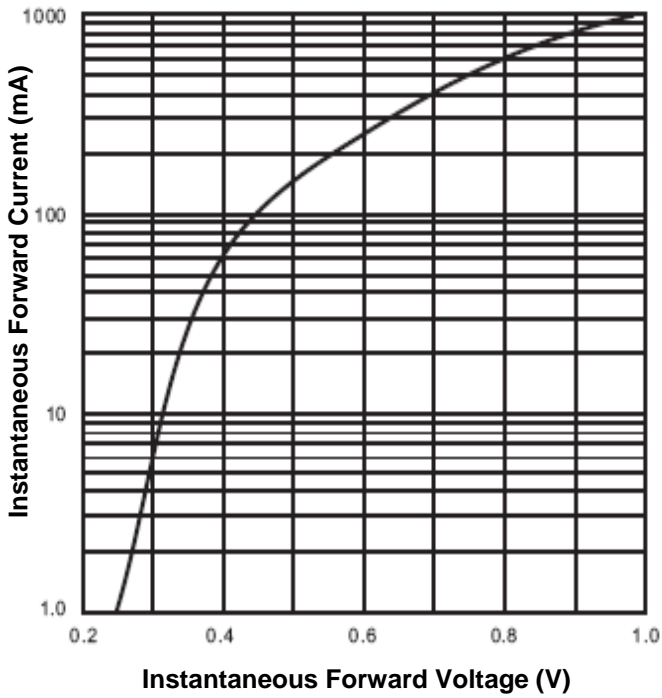
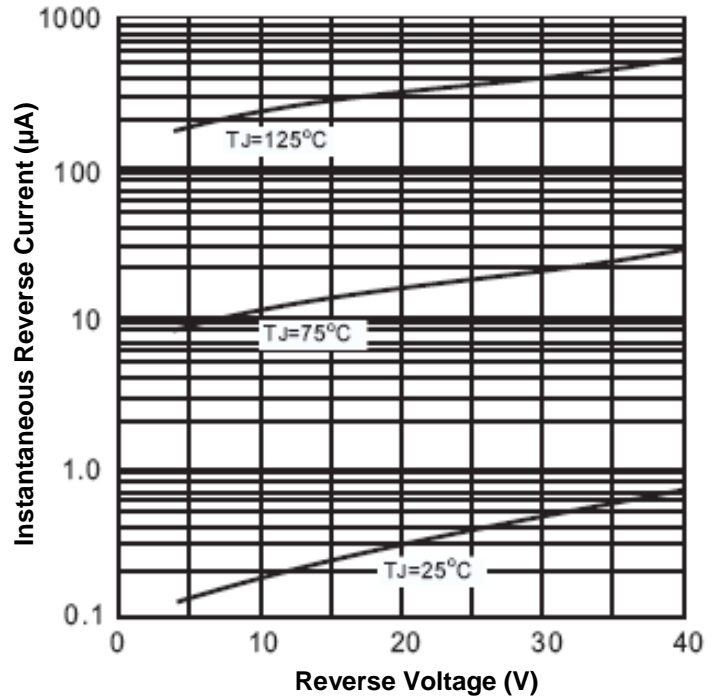


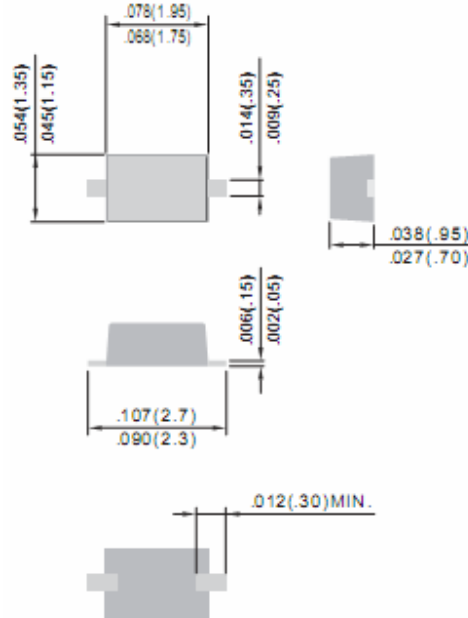
Fig.4- Typical Reverse Current



Two Terminals Schottky Barrier Diodes

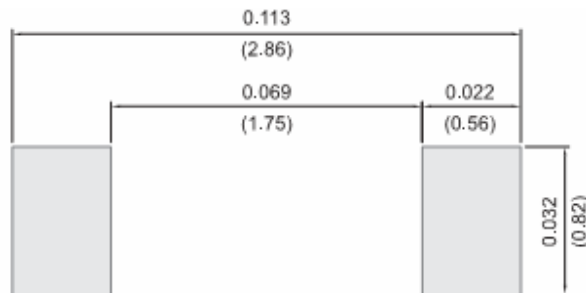
SD103AWS/BWS/CWS

Dimensions in inch (mm)



SOD-323

Mounting Pad Layout in inch (mm)



Packing Information

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

12K per 13" Plastic Reel

Two Terminals Schottky Barrier Diodes

SD103AWS/BWS/CWS

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.
42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONENTS INCORPORATED REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONENTS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931