

SD103AWS

SD103AWS Schottky Barrier Diode

General description

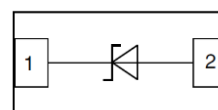
200mW SOD-323 SURFACE MOUNT
Very Small Outline Flat Lead Plastic Package

FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode



SOD-323 Package



Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _D	Power Dissipation	200	mW
T _{STG}	Storage Temperature Range	-65 to +125	°C
T _J	Operating Junction Temperature	+125	°C
V _{RM}	Repetitive Peak Reverse Voltage	40	V
I _{F(AV)}	Average Forward Rectified Current	200	mA
I _{FSM}	Peak Forward Surge Current (10 uS Wave)	2	A

Device Marking Code:

Device Type	Device Marking
SD103AWS	S4 or JV

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Test Condition	Limits			Unit
			Min	Typ	Max	
I _R	Reverse Leakage Current	V _R =30V	---	---	5	μA
V _F	Forward Voltage	I _F =20mA I _F =200mA	---	---	0.37 0.60	Volts
C _t	Junction Capacitance	V _R =0V f= 1MHz	---	50	---	pF

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Typical Characteristics

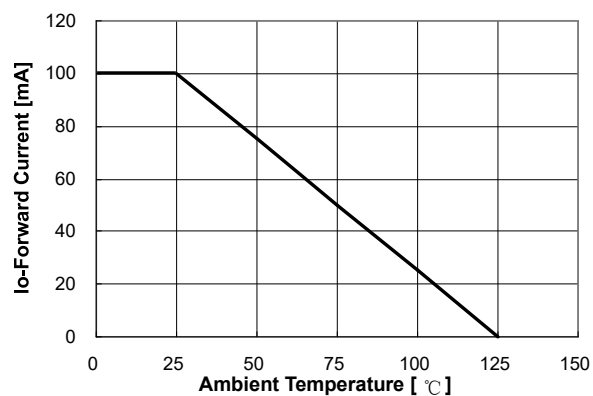


Figure 1. Forward Current Derating Curve

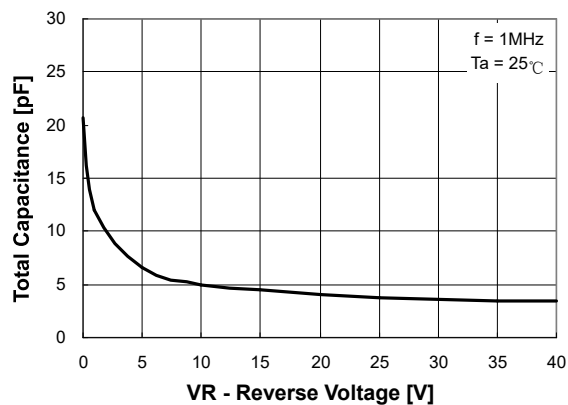


Figure 2. Total Capacitance

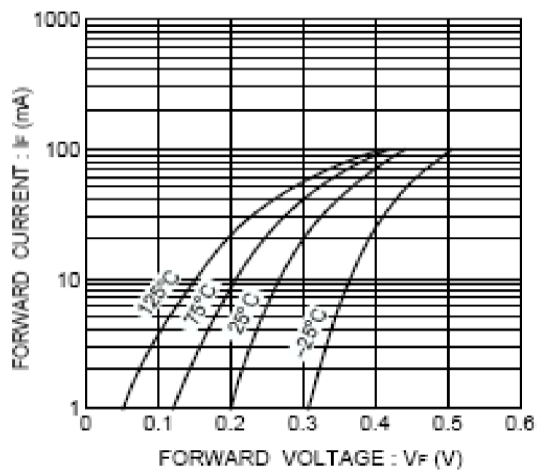


Figure 3. Forward Characteristics

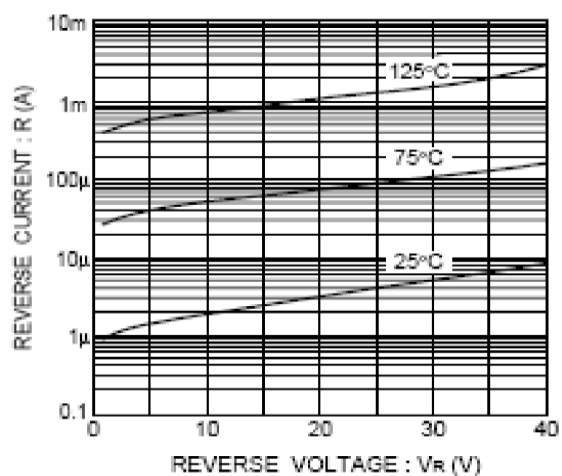
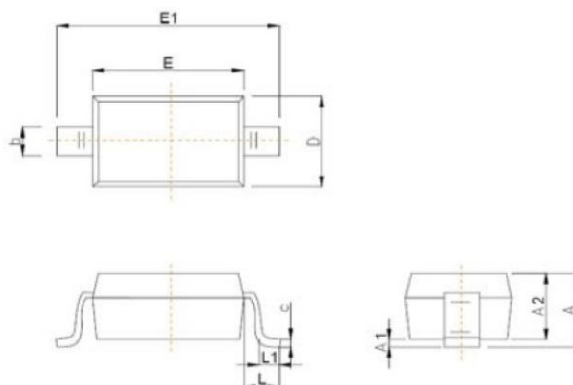


Figure 4. Reverse Characteristics

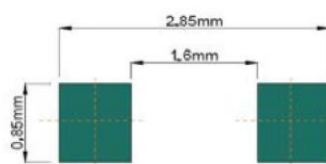
Note: Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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SOD-323 PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters	
	Min	Max
A		1.00
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
e	1.800	2.040
L	0.475 REF	
L1	0.250	0.400
θ	0°	8°



Recommended Pad outline

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