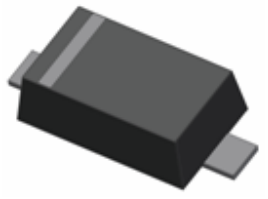
200mW SOD-323 SURFACE MOUNT
Small Outline Flat Lead Plastic Package
Schottky Barrier Diode

Green Product



SOD-323 Flat Lead

ELECTRICAL SYMBOL

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	SD103AWS	40	V
		SD103BWS	30	V
		SD103CWS	20	V
$I_{F(AV)}$	Average Forward Rectified Current		200	mA
I_{FSM}	Peak Forward Surge Current (10uS square wave)		2	A

These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

- Low Forward Voltage Drop
- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Terminal Finish
- Band Indicates Cathode
- Weight: approx. 0.004g

DEVICE MARKING CODE:

Device Type	Device Marking
SD103AWS	S4
SD103BWS	S5
SD103CWS	S6

Electrical Characteristics
T_A = 25°C unless otherwise noted

Symbol	Parameter		Test Condition	Limits			Unit
				Min	Typ	Max	
I_R	Reverse Leakage Current	SD103AWS	V_R=30V	---	---	5	µA
		SD103BWS	V_R=20V				
		SD103CWS	V_R=10V				
V_F	Forward Voltage		I_F=20mA	---	---	0.37	Volts
			I_F=200mA			0.60	
Ct	Junction Capacitance		V_R=0V f= 1MHz	---	50	---	pF

Typical Characteristics

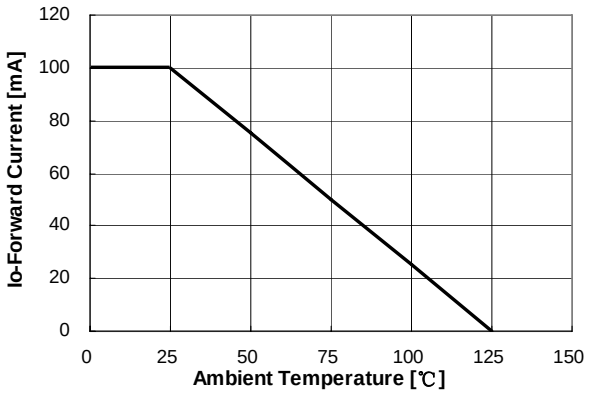


Figure 1. Forward Current Derating Curve

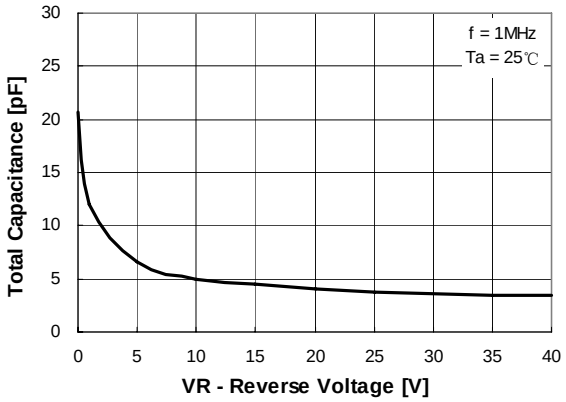


Figure 2. Total Capacitance

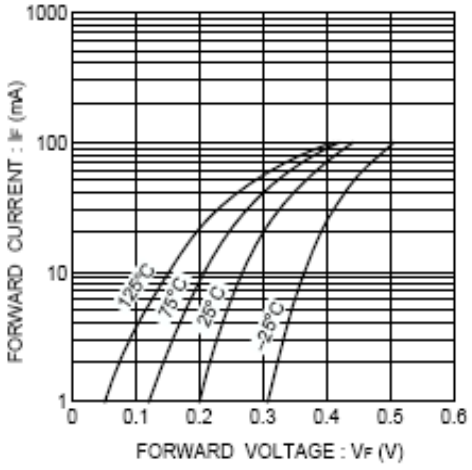


Figure 3. Forward Characteristics

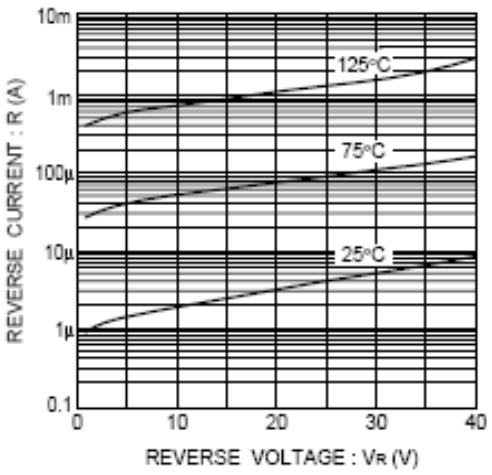
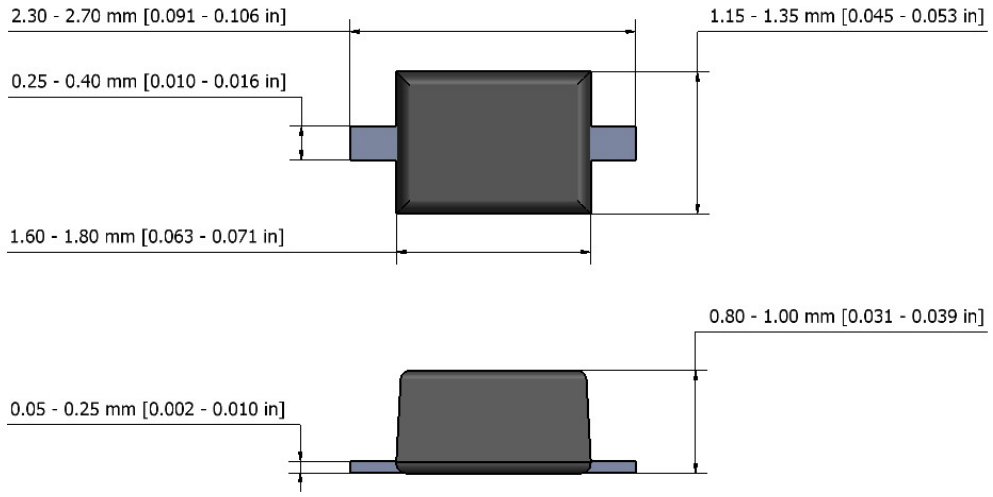


Figure 4. Forward Characteristics

SOD-323 Package Outline



NOTES:
1. The above package outline is similar to JEITA SC-90.
2. Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.