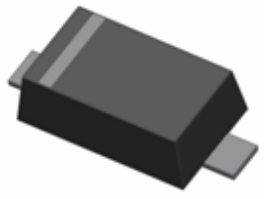
TAK CHEONG®

SEMICONDUCTOR

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	JV
SD103BWS	JW
SD103CWS	JX

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

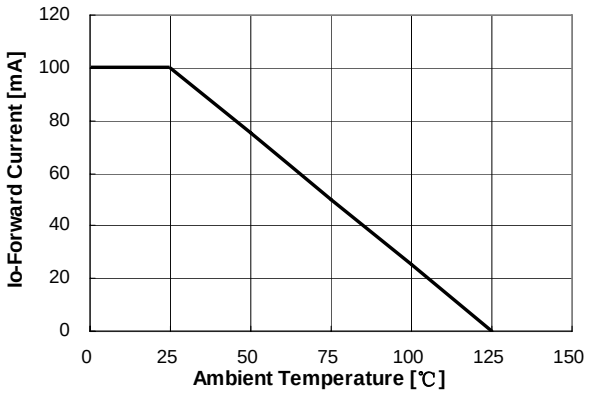


Figure 1. Forward Current Derating Curve

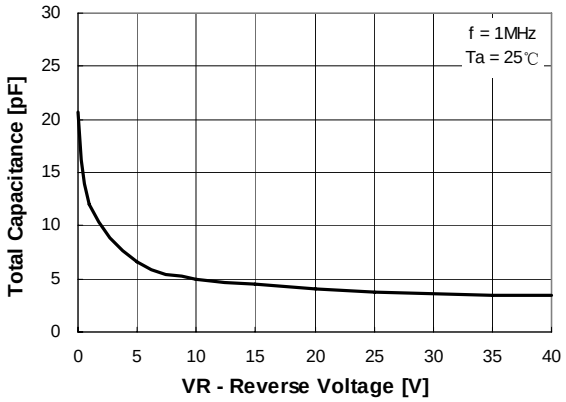


Figure 2. Total Capacitance

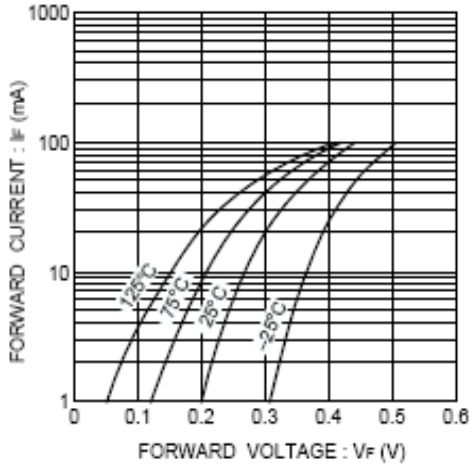


Figure 3. Forward Characteristics

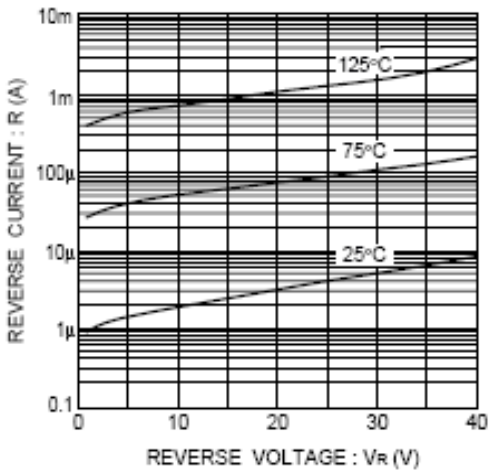
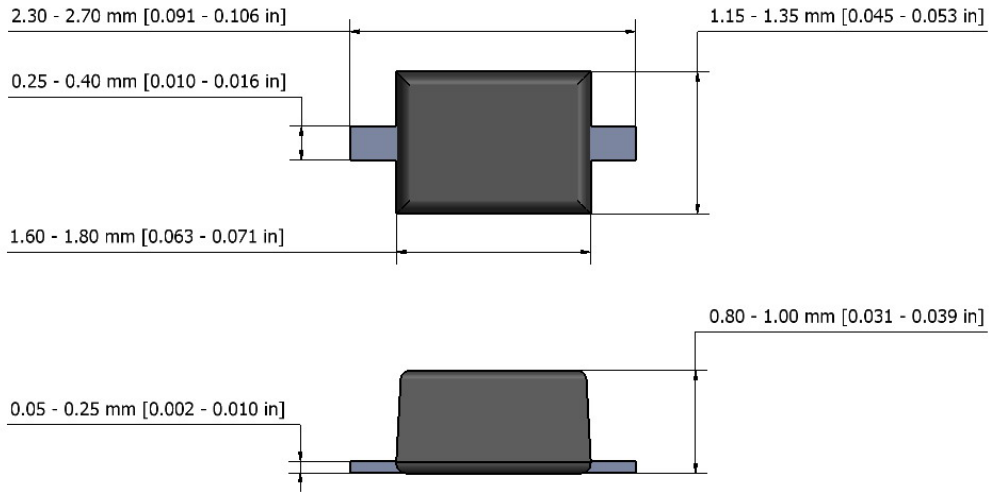


Figure 4. Forward Characteristics

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.

NOTICE

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damagers resulting from such improper use of sale.

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