

# SD103AW

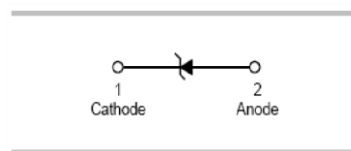
## SD103AW Schottky Barrier Diode

### General description

400mW SOD-123 SURFACE MOUNT  
Very Small Outline Flat Lead Plastic Package

### FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-123 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode
- Weight: approx. 0.01g



SOD-123

Device Marking Code:

Device Type	Device Marking
SD103AW	S4

### Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	400	mW
$T_{STG}$	Storage Temperature Range	-65 to +125	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	+125	$^\circ\text{C}$
$V_{RM}$	Repetitive Peak Reverse Voltage SD103AW	40	V
$I_{F(AV)}$	Average Forward Rectified Current	200	mA

### Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits			Unit
			Min	Typ	Max	
$I_R$	Reverse Leakage Current	$V_R=30\text{V}$	---	---	5	$\mu\text{A}$
$V_F$	Forward Voltage	$I_F=20\text{mA}$ $I_F=200\text{mA}$	---	---	0.37 0.60	Volts
$C_d$	Junction Capacitance	$V_R=0\text{V}$ $f=1\text{MHz}$	---	50	---	pF

## Typical Characteristics

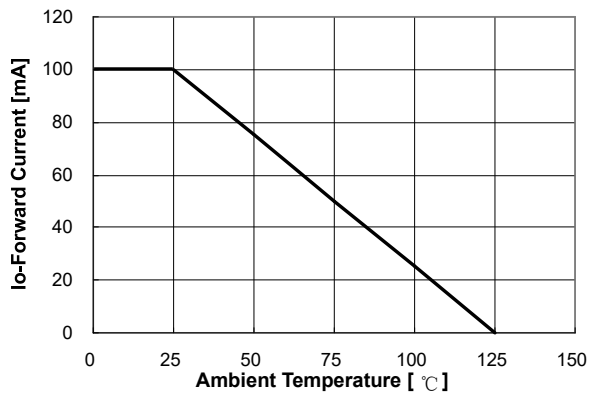


Figure 1. Forward Current Derating Curve

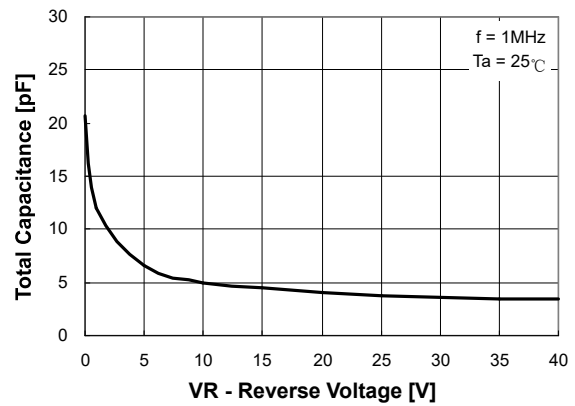


Figure 2. Total Capacitance

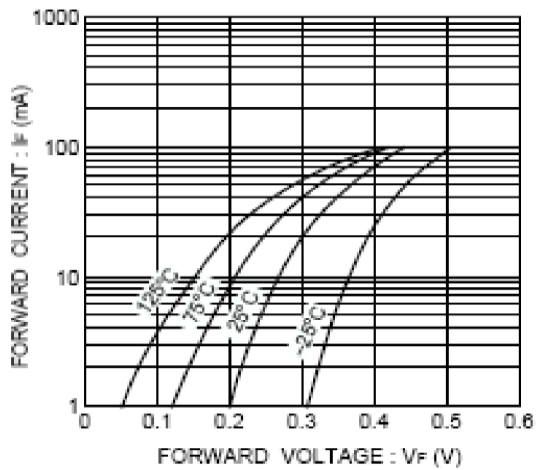


Figure 3. Forward Characteristics

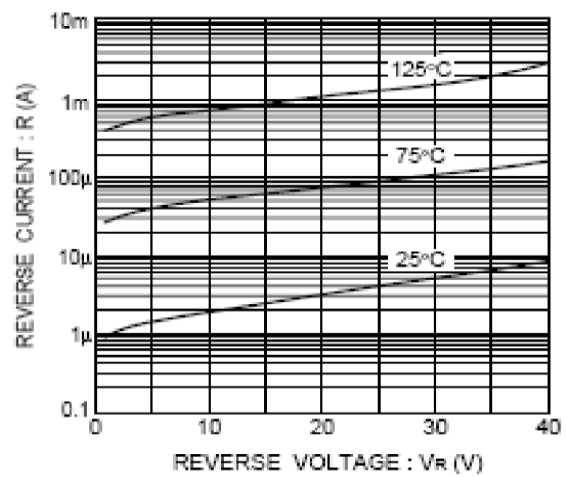
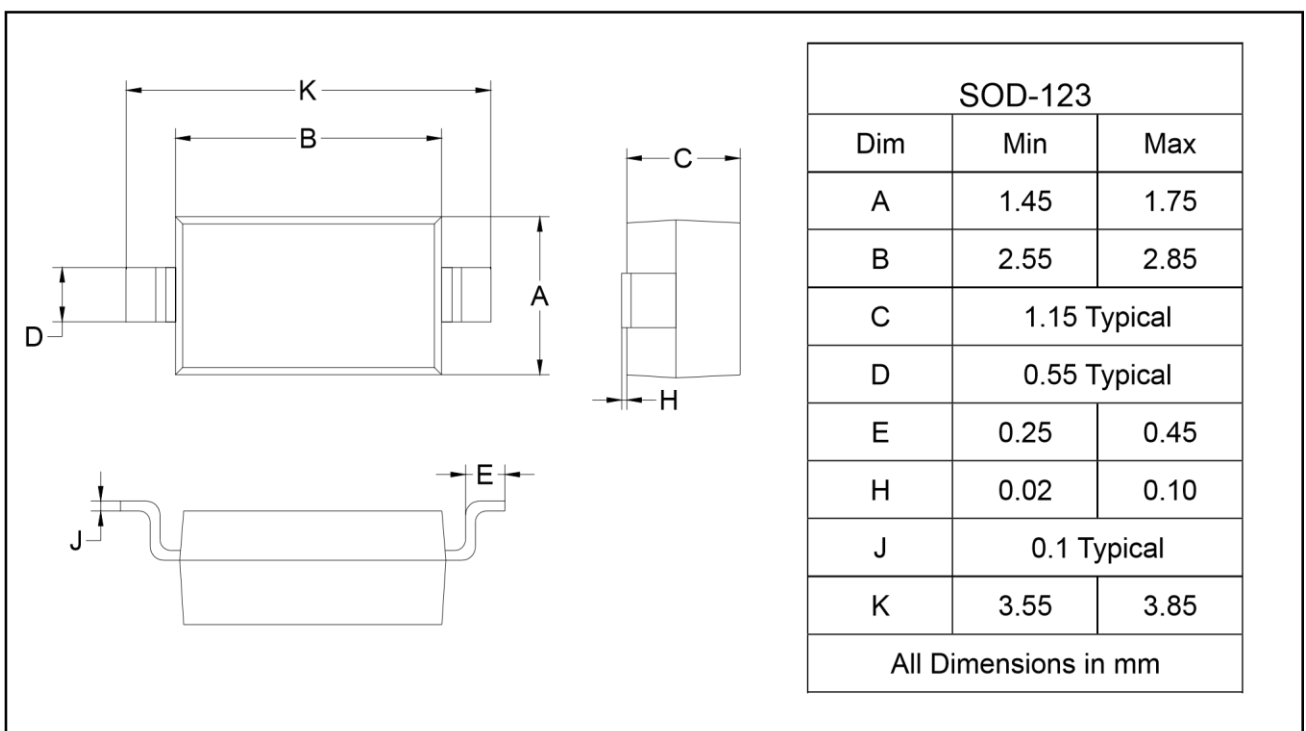


Figure 4. Forward Characteristics

## SOD-123 Package Outline



## Important Notice and Disclaimer

DOESHARE has used reasonable care in preparing the information included in this document, but DOESHARE does not warrant that such information is error free. DOESHARE assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

DOESHARE no warranty, representation or guarantee regarding the documents, circuits and products specification, DOESHARE reservation rights to make changes for any documents, products, circuits and specifications at any time without notice.

Purchasers are solely responsible for the choice, selection and use of the DOESHARE products and services described herein, and DOESHARE assumes no liability whatsoever relating to the choice, selection or use of the products and services described herein.

No license, express or implied, by implication or otherwise under any intellectual property rights of DOESHARE.

Resale of DOESHARE products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by DOESHARE for the DOESHARE product or service described herein and shall not create or extend in any manner whatsoever, any liability of DOESHARE.