



SD103AX SD103BX SD103CX

Schottky Barrier Diode

Reverse Voltage - 20V to 40V Forward Current - 0.35A

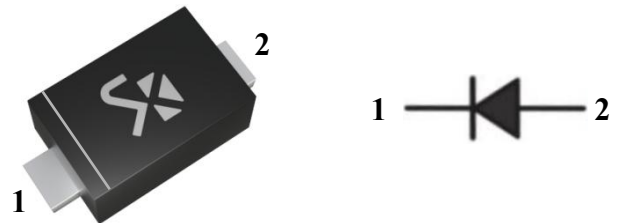
Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Reverse Capacitance

Application

- Schottky Barrier Switching

Ordering Information



SOD-523

Ordering Number	Marking	Package
SD103AX	S4	SOD-523
SD103BX	S5	SOD-523
SD103CX	S6	SOD-523

Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	SD103AX	SD103BX	SD103CX	Units
Repetitive Peak Reverse Voltage	V_{RRM}	40	30	20	V
Working Voltage	V_{RWM}	40	30	20	V
DC Reverse Voltage	V_R	40	30	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Forward Continuous Current	I_F	350			mA
Repetitive Peak Forward Current@ $t \leq 1.0\text{s}$	I_{FRM}	1.5			A
Power Dissipation	P_D	400			mW
Operating Junction Temperature Range	T_J	$-40 \sim +125$			$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	$-65 \sim +120$			$^{\circ}\text{C}$
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	300			$^{\circ}\text{C/W}$

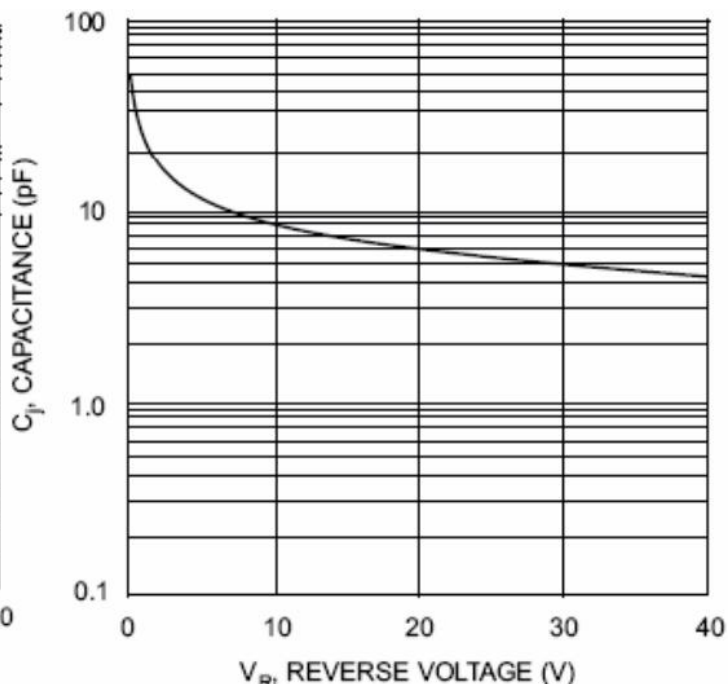
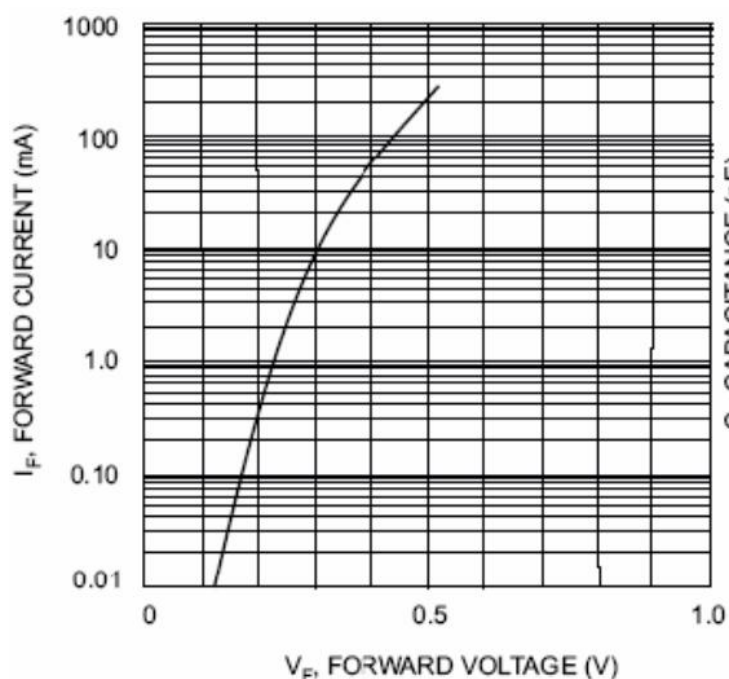


SD103AX SD103BX SD103CX

Electrical Characteristics($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter		Conditions	Symbol	Min	Typ	Max	Units
Reverse Breakdown Voltage	SD103AX	$I_R=10\mu\text{A}$	$V_{(BR)R}$	40	-	-	V
	SD103BX	$I_R=10\mu\text{A}$		30	-	-	
	SD103CX	$I_R=10\mu\text{A}$		20	-	-	
Forward Voltage		$I_F=20\text{mA}$	V_F	-	-	0.37	V
		$I_F=200\text{mA}$		-	-	0.60	
Reverse Current	SD103AX	$V_R=30\text{V}$	I_R	-	-	5.0	μA
	SD103BX	$V_R=20\text{V}$		-	-	5.0	
	SD103CX	$V_R=10\text{V}$		-	-	5.0	
Capacitance Between Terminals		$V_R=0, f=1\text{MHz}$	C_T	-	-	50	pF
Reverse Recovery Time		$I_R=I_F=200\text{mA}$, $I_{rr}=0.1 \cdot I_R, R_L=100\Omega$	t_{rr}	-	-	10	ns

Typical Characteristic($T_A=25^{\circ}\text{C}$ unless otherwise specified)



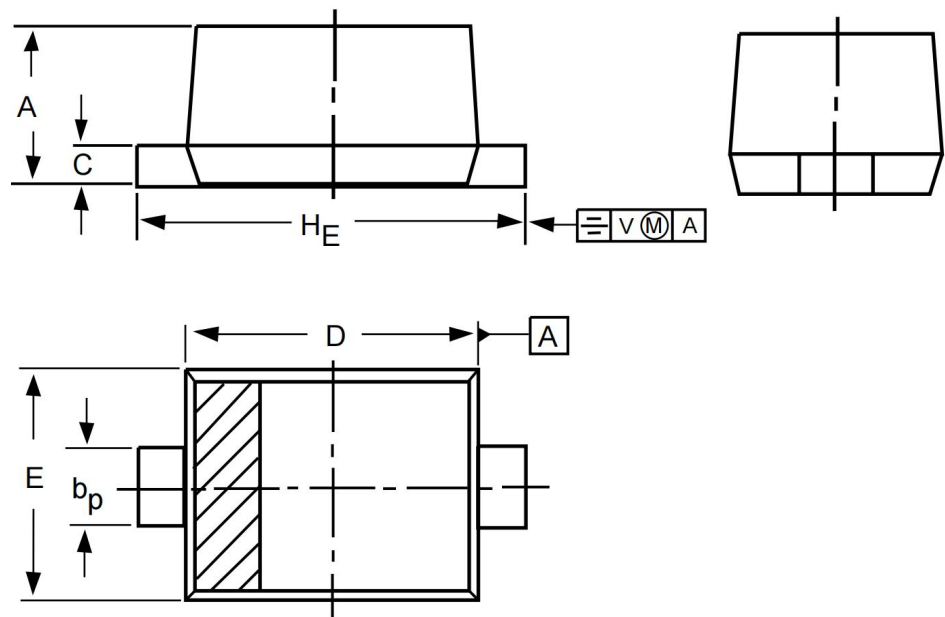


SD103AX SD103BX SD103CX

Package Information

SOD-523

Dimensions in mm



Unit	A	b _p	C	D	E	H _E	V
mm	0.7	0.35	0.2	1.3	0.9	1.7	0.15
	0.5	0.25	0.1	1.1	0.7	1.5	



SD103AX SD103BX SD103CX

Shikues Disclaimer

1.Accuracy of Information and Right to Modify

The information provided in this document is for reference only. Shikues reserves the right to make changes to this document and to the specifications of the products described herein at any time, without prior notice, for the purpose of improving reliability, function, design, or for any other reason. It is the customer's responsibility to obtain and verify the latest product information and specifications before making any final design, procurement, or usage decisions.

2.No Warranty

Shikues makes no express or implied warranties, representations, or guarantees regarding the suitability of its products for any particular purpose.

Shikues assumes no liability for any assistance provided or for the design of customer products. All products are supplied "as is."

3.Intended Use and Limitation of Liability

The products described in this document are intended for use in general-purpose electronic devices. They are neither designed nor tested nor authorized for use in transportation equipment or applications requiring high reliability. Unless expressly authorized in writing by Shikues, these products must not be used as critical components in life-support systems or any applications where failure could directly pose a risk to human life (including, but not limited to, medical devices, transportation systems, aerospace equipment, nuclear facilities, and safety-critical systems).

Shikues assumes no responsibility or liability for any consequences arising from the use of its products in unauthorized or unintended applications.

Neither Shikues nor its representatives shall be held liable for any resulting damages.

4.Intellectual Property

This document does not grant any express or implied license—whether by estoppel, implication, or otherwise—to use any intellectual property rights of Shikues.