

Schottky Barrier Diode

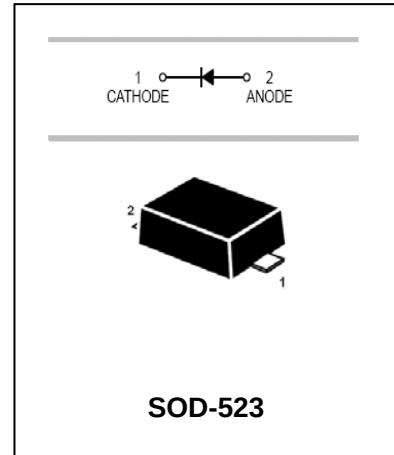
SD103AX

FEATURES

- Low forward voltage drop.
- Guard ring construction for transient protection.
- Low reverse recovery time.
- Low reverse capacitance.



Lead-free



APPLICATIONS

- Schottky barrier application.

ORDERING INFORMATION

Type No.	Marking	Package Code
SD103AX	S4	SOD-523

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
DC Reverse voltage	V_R	40	V
Continuous forward current	I_F	350	mA
Repetitive peak forward current @ $t \leq 1.0s$	I_{FRM}	1	A
Total power dissipation	P_{tot}	400	mW
Total resistance junction to ambient	$R_{\theta JA}$	300	°C/W
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-65-125	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)R}$	40			V	$I_R = 100\mu A$
Forward voltage	V_F			0.37 0.60	V	$I_F = 20mA$ $I_F = 200mA$
Reverse current	I_R			5.0	μA	$V_R = 30V$
Diode capacitance	C_d		50		pF	$V_R = 0V, f = 1MHz$
Reverse recovery time	t_{rr}		10		ns	$I_F = I_R = 50mA, R_L = 100\Omega$

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SD103AX

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

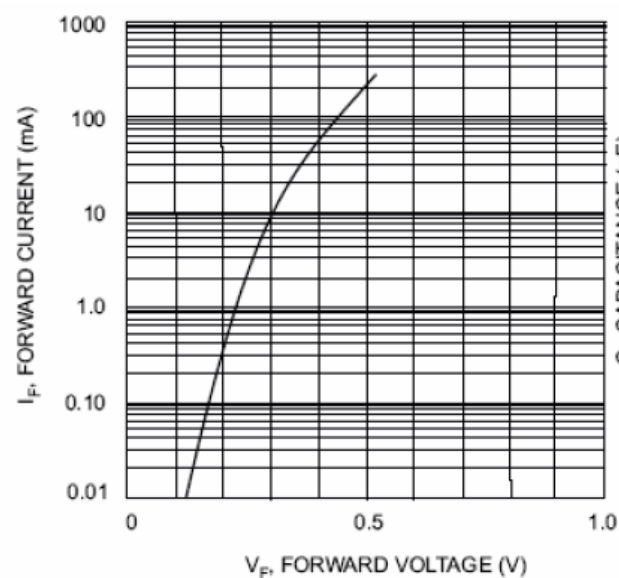


Fig. 1 Typical Forward Characteristics

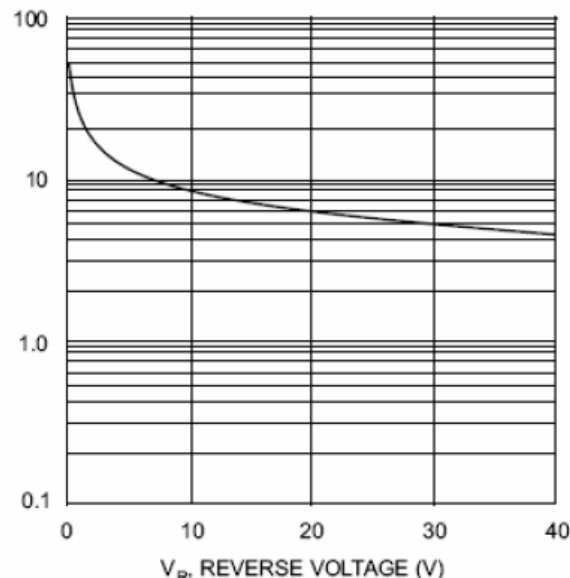
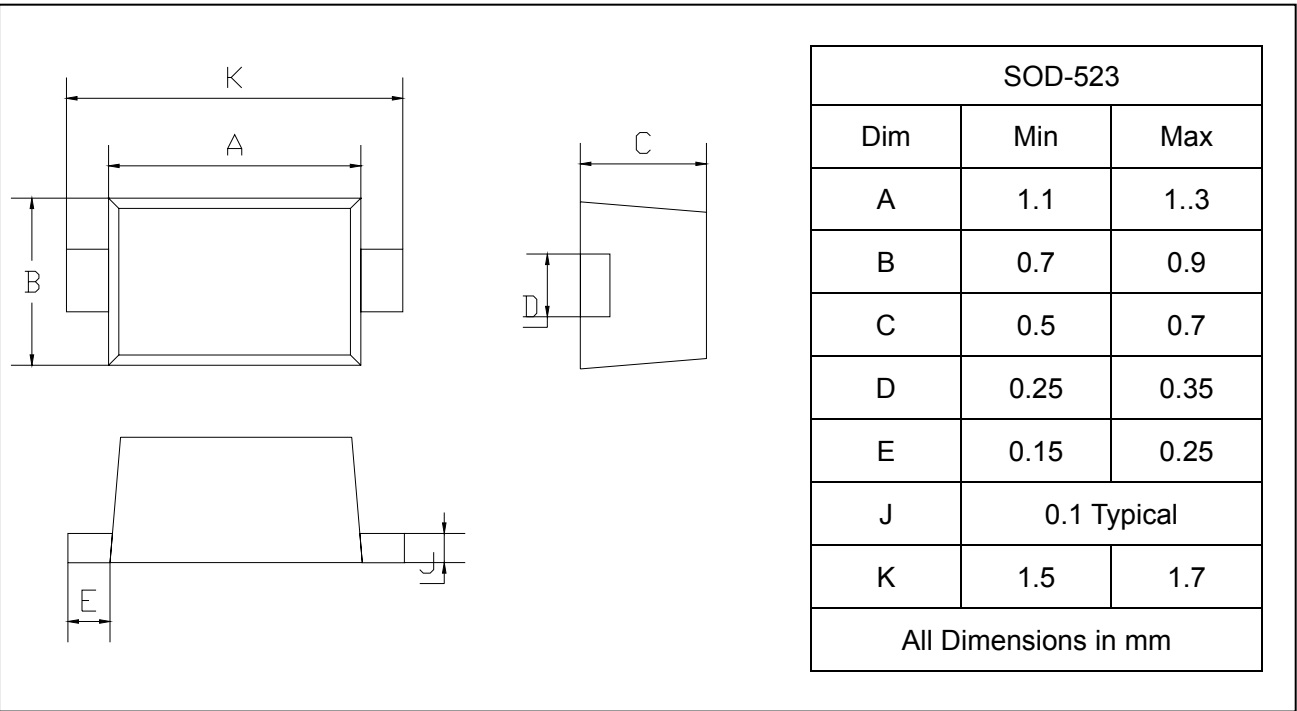


Fig. 2 Typ. Junction Capacitance vs Reverse Voltage

PACKAGE OUTLINE

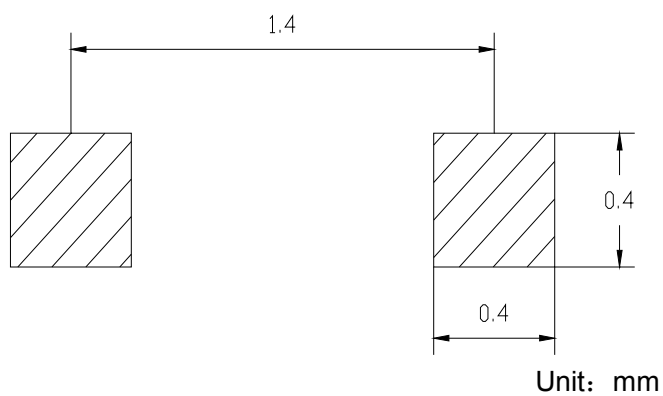
Plastic surface mounted package

SOD-523



Schottky Barrier Diode

SD103AX

SOLDERING FOOTPRINT**PACKAGE INFORMATION**

Device	Package	Shipping
SD103AX	SOD-523	3000/Tape&Reel