

Schottky Barrier Diode

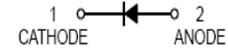
SD103AWS/SD103BWS/SD103CWS

FEATURES

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



Lead-free



SOD-323

APPLICATIONS

- Schottky barrier switching.

ORDERING INFORMATION

Type No.	Marking	Package Code
SD103AWS	S4	SOD-323
SD103BWS	S5	SOD-323
SD103CWS	S6	SOD-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	SD103AWS	SD103BWS	SD103CWS	Unit
Peak Repetitive Peak reverse voltage	V_{RRM}				
Working Peak DC Reverse Voltage	V_{RWM}	40	30	20	V
	V_R				
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Forward Continuous Current	I_F	350			mA
Repetitive Peak Forward Current @t≤1.0s	I_{FSM}	1.5			A
Power Dissipation	P_d	200			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625			°C/W
Storage temperature	T_{stg}	-65~+125			°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Schottky Barrier Diode

SD103AWS/SD103BWS/SD103CWS

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	SD103AWS SD103BWS SD103CWS	40 30 20			V	$I_R=10\mu A$ $I_R=10\mu A$ $I_R=10\mu A$
Forward voltage	V_F			0.37 0.60	V	$I_F=20mA$ $I_F=200mA$
Reverse current	SD103AWS SD103BWS SD103CWS			5.0	μA	$V_R=30V$ $V_R=20V$ $V_R=10V$
Junction Capacitance	C_J		50		pF	$V_R=0, f=1MHz$
Reverse Recovery Time	t_{rr}		10		ns	$I_R=I_F=200mA$ $t_{rr}=0.1 \cdot I_R, R_L=100\Omega$

TYPICAL CHARACTERISTICS @ $T_a=25^\circ C$ unless otherwise specified

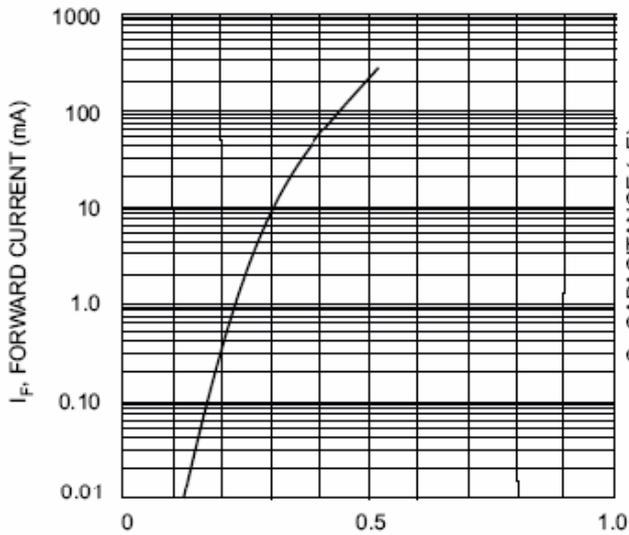


Fig. 1 Typical Forward Characteristics

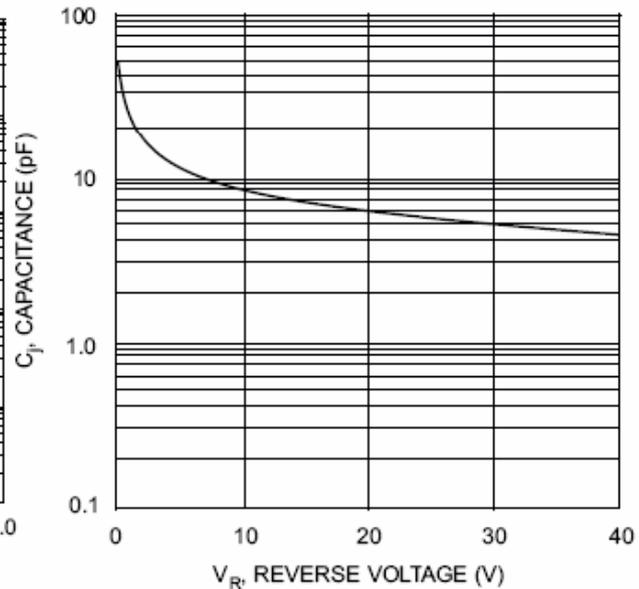


Fig. 2 Typ. Junction Capacitance vs Reverse Voltage

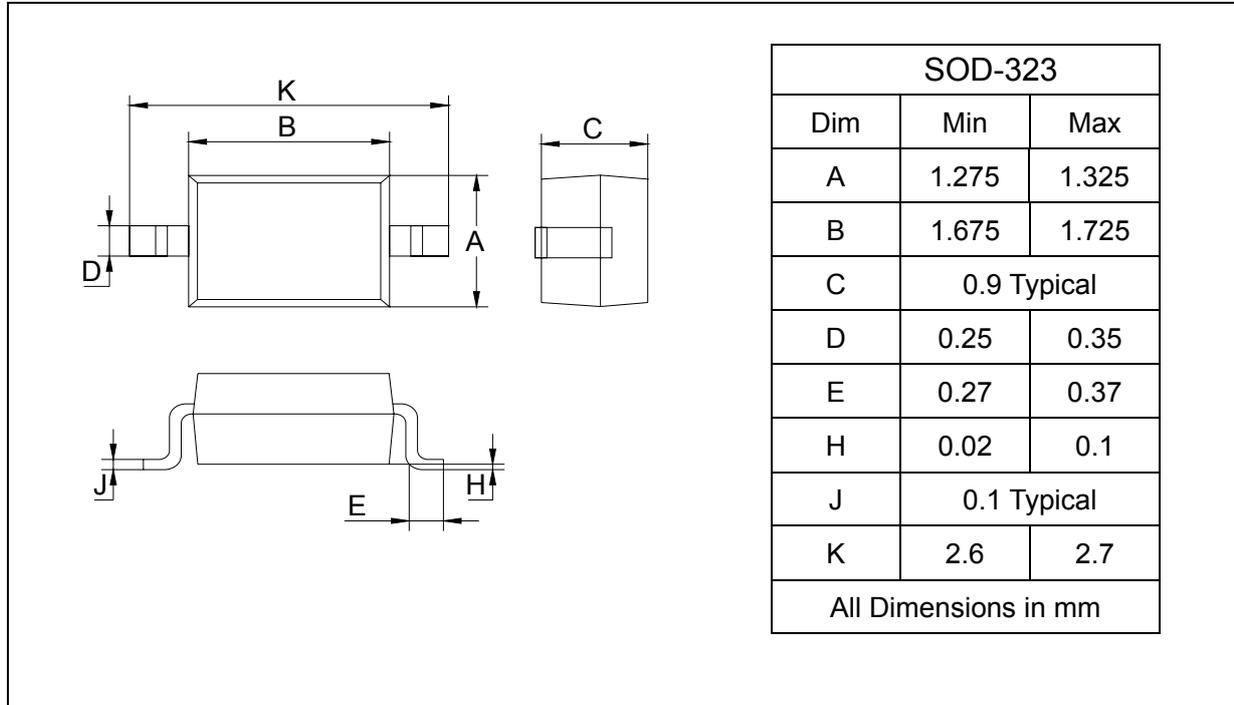
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SD103AWS/SD103BWS/SD103CWS

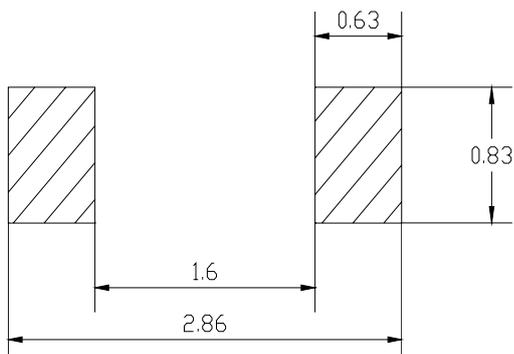
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
SD103AWS-SD103CWS	SOD-323	3000/Tape&Reel