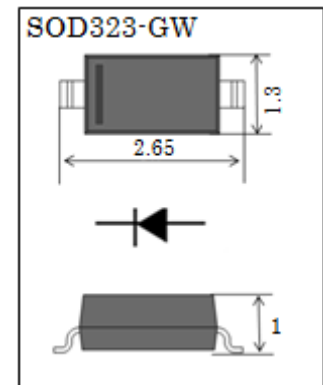


Schottky Barrier Diode / DATA SHEET

SD103AWX;SD103BWX;SD103CWX

- ◇ Low Power Loss For High Efficiency
- ◇ Low Forward Voltage Schottky Rectifier
- ◇ **SOD323** Micro SMD package
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Cathode Band / Device marking

Device Marking Code	
SD103AWX	S4
SD103BWX	S5
SD103CWX	S6



Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	SD103AWX	SD103BWX	SD103CWX	Units
V_{RM}	Non-Repetitive Peak Reverse Voltage	40	30	20	V
V_{RRM}	Repetitive Peak Reverse Voltage	40	30	20	V
$V_{R(RMS)}$	RMS Reverse Voltage	28	21	14	V
I_O	Average Rectified Output Current	350			mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current (@t=8.3ms)	2			A
P_D	Power Dissipation	200			mW
T_J	Junction Temperature	125			°C
T_{STG}	Storage Temperature	-55 to +125			°C

Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Test Conditions		Min	Typ	Max	Units
V_{BR}	Reverse brektdown Voltage	$I_R=100\mu A$	SD103AWX	40			V
		$I_R=100\mu A$	SD103BWX	30			
		$I_R=100\mu A$	SD103CWX	20			
V_F	Forward Voltage	$I_F=20mA$				0.37	V
		$I_F=200mA$				0.6	
I_R	Reverse current	$V_R=30V$	SD103AWX			5.0	μA
		$V_R=20V$	SD103BWX			5.0	
		$V_R=10V$	SD103CWX			5.0	

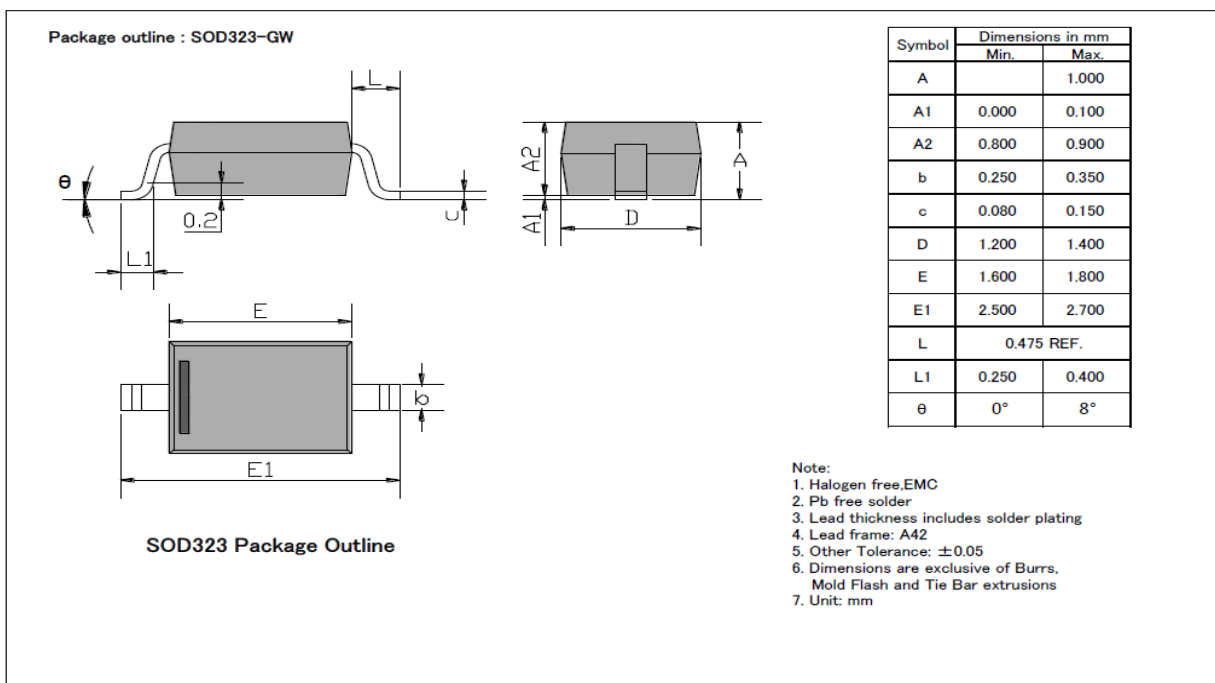
Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Test Conditions	Min		Max	Units
Ctot	Total capacitance	$V_R=0V, f=1MHz$			50	pF
trr	Reverse recovery time	$I_F=I_R=200mA, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$		10		ns

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
SD103xWX	SOD323-GW	Tape & Reel 3000pcs /7" Reel	8 mm	4 mm	Conductive	

Package Dimensions



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