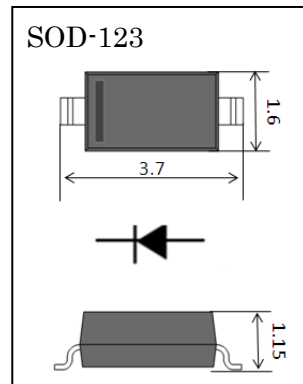


Schottky Barrier Diode / DATA SHEET

SD103AW;SD103BW;SD103CW

- ◇ Low Power Loss For High Efficiency
- ◇ Low Forward Voltage Schottky Rectifier
- ◇ **SOD123** Micro SMD package
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Cathode Band / Device marking

Device Marking Code	
SD103AW	S4
SD103BW	S5
SD103CW	S6



Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	SD103AW	SD103BW	SD103CW	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<=1.0s)	1.5			A
P_D	Power Dissipation	400			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	Max	Units
V_F	Forward Voltage	$I_F=20mA$ $I_F=200mA$			0.37 0.6	V
I_R	Reverse current	$V_R=30V$ $V_R=20V$ $V_R=10V$	SD103AW SD103BW SD103CW		5.0 5.0 5.0	uA

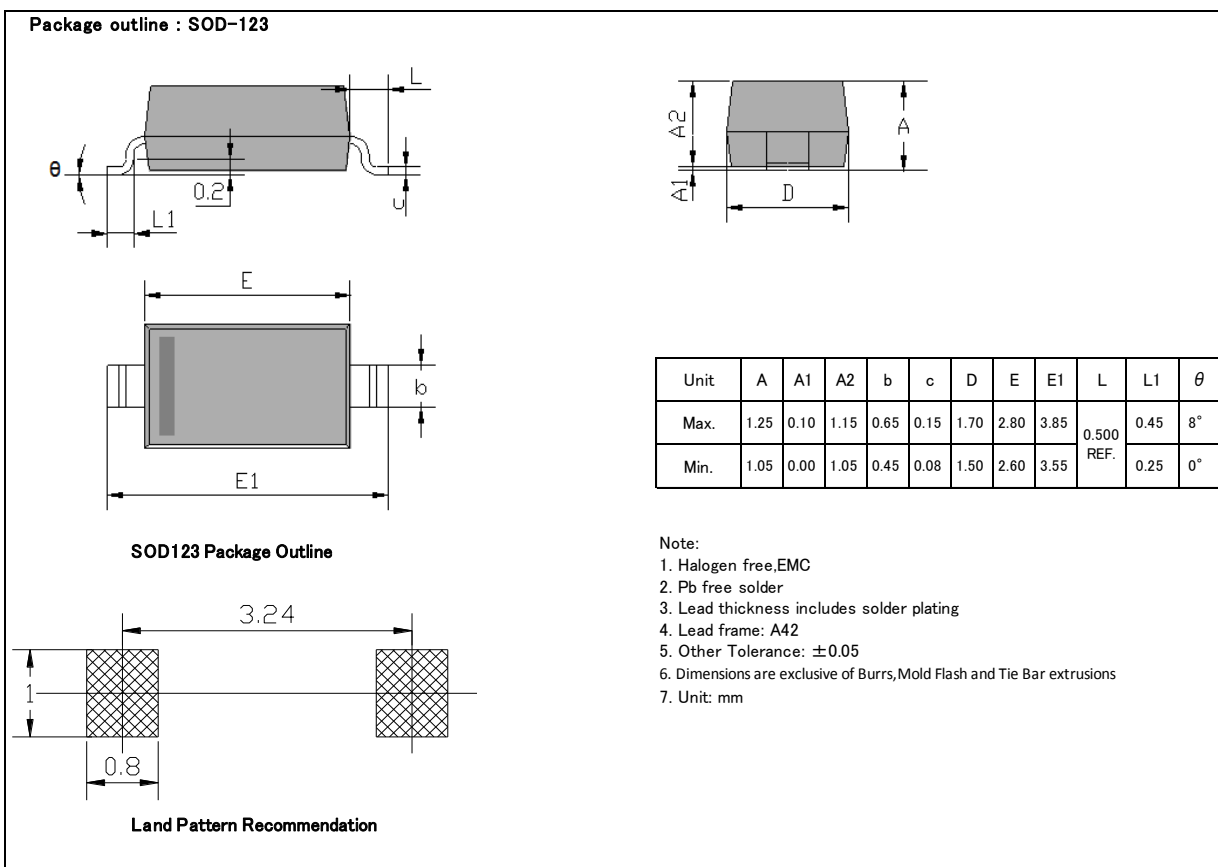
Electrical Characteristics (Ta = 25 °C)

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
SD103xW series	SOD123	Tape & Reel 3000pcs /7" Reel	8 mm	4 mm	Conductive	

Package Dimensions



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