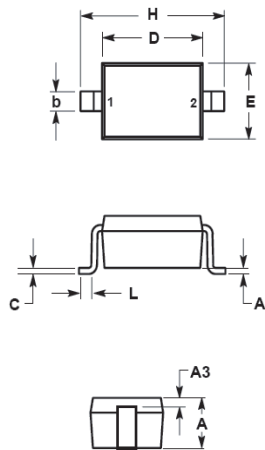


Features

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

DEVICE	MARKING
SD103AWS	S4
SD103BWS	S5
SD103CWS	S6



SOD-323		
Dim.	Min.	Max.
A	0.80	1.10
A1	0.00	0.10
A3	0.15 REF	
B	0.25	0.40
C	0.10	0.15
D	1.60	1.80
E	1.15	1.35
L	0.20	0.50
H	2.30	2.80
Dimensions in millimeter		

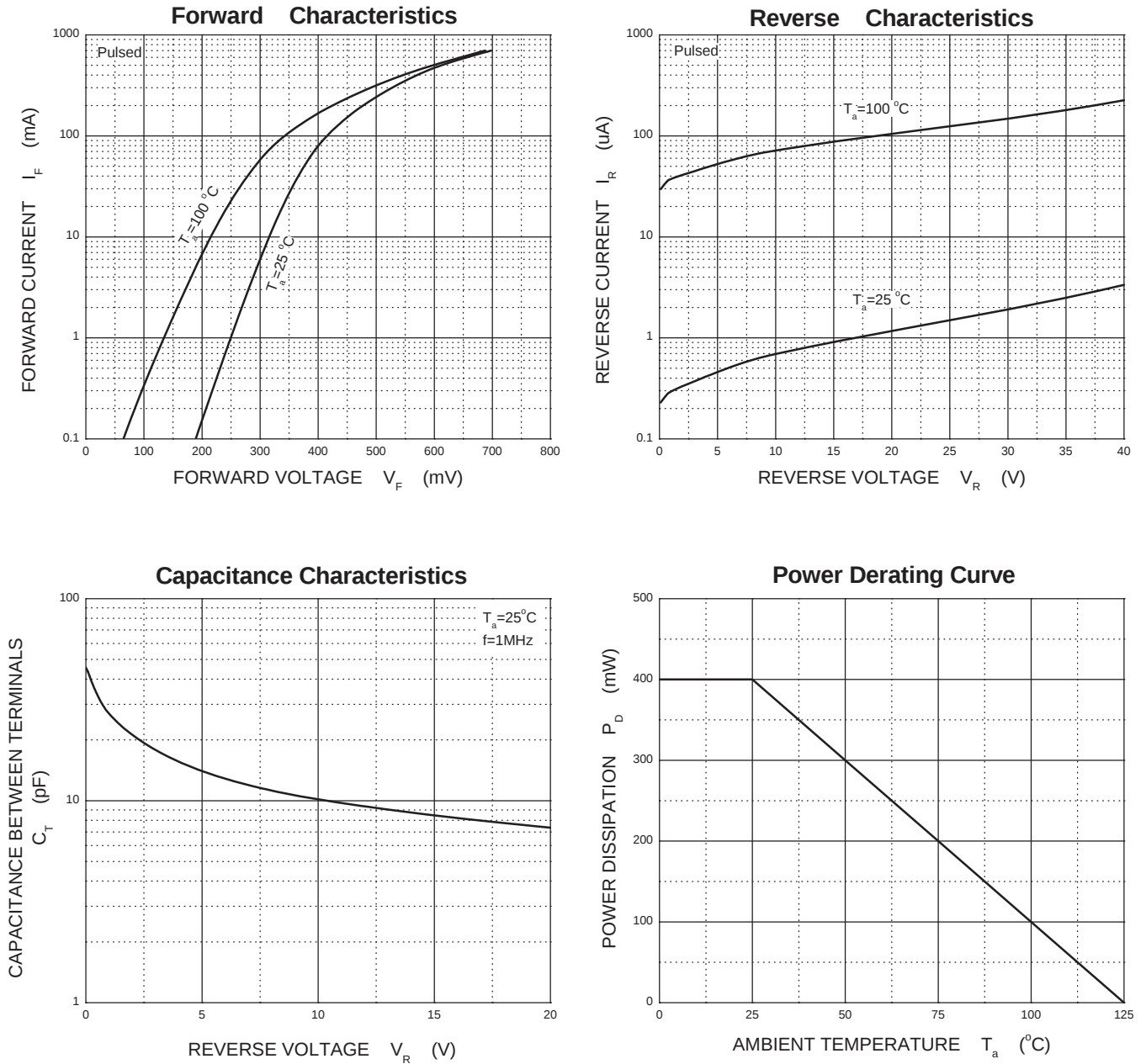
Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Symbol	Parameter	Value			Unit
		SD103AWS	SD103BWS	SD103CWS	
V_{RRM}	Peak Repetitive Reverse Voltage	40	30	20	V
V_{RWM}	Working Peak Reverse Voltage				
$V_{R(RMS)}$	RMS Reverse Voltage	28	21	14	V
I_{FM}	Forward Continuous Current	350			mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@ $t=8.3\text{ms}$	2			A
P_D	Power Dissipation	200			mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500			$^\circ\text{C}/\text{W}$
T_j	Junction Temperature	125			$^\circ\text{C}$
T_{stg}	Storage Temperature	$-55\sim+150$			$^\circ\text{C}$

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$ SD103AW	40			V
		SD103BW	30			
		SD103CW	20			
Reverse current	I_R	$V_R=30\text{V}$ SD103AW			5	μA
		$V_R=20\text{V}$ SD103BW				
		$V_R=10\text{V}$ SD103CW				
Forward voltage	V_F	$I_F=20\text{mA}$			0.37	V
		$I_F=200\text{mA}$			0.6	
Total capacitance	C_{tot}	$V_R=0\text{V}, f=1\text{MHz}$		50		pF
Reverse recovery time	t_{rr}	$I_F=I_R=200\text{mA}, I_{rr}=0.1\times I_R, R_L=100\Omega$		10		ns

TYPICAL TRANSIENT CHARACTERISTICS



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