



Features

- Forward Continuous Current: $I_{FM}=350\text{mA}$
- Power Dissipation of 400mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SD103AW	SOD-123	S4	3000
SD103BW	SOD-123	S5	3000
SD103CW	SOD-123	S6	3000



SOD-123



Maxmim Ratings (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value			Unit
		SD103AW	SD103BW	SD103CW	
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= 8.3ms	2			A
P_D	Power Dissipation	400			mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	250			°C/W
T_j	Junction Temperature	125			°C
T_{stg}	Storage Temperature	-55~+150			°C

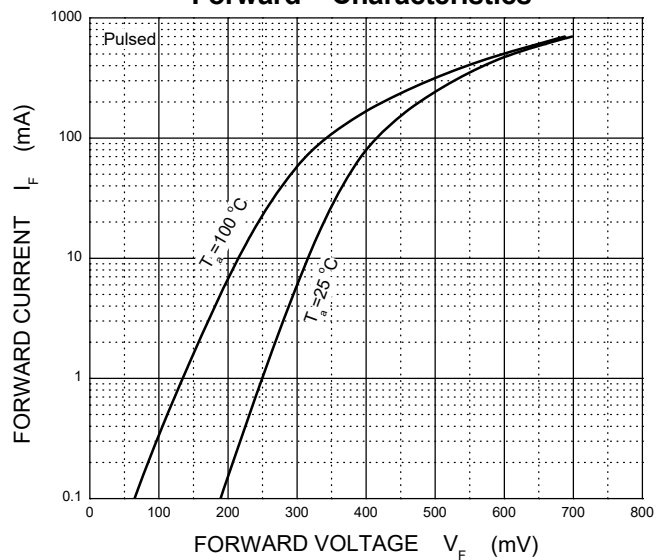
Electrcal Characteristics (Ta=25°C unless otherwise specified)

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

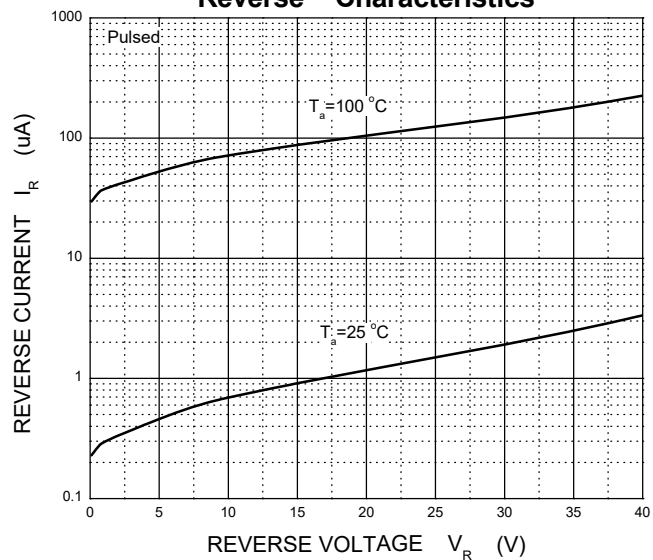


Typical Characteristics

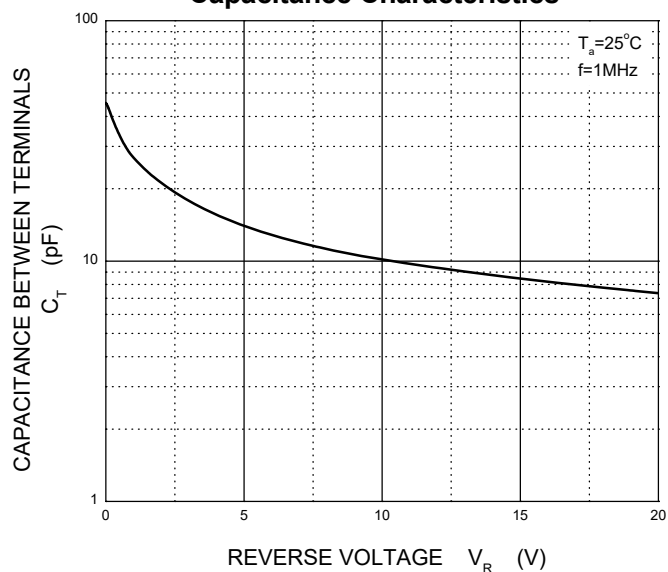
Forward Characteristics



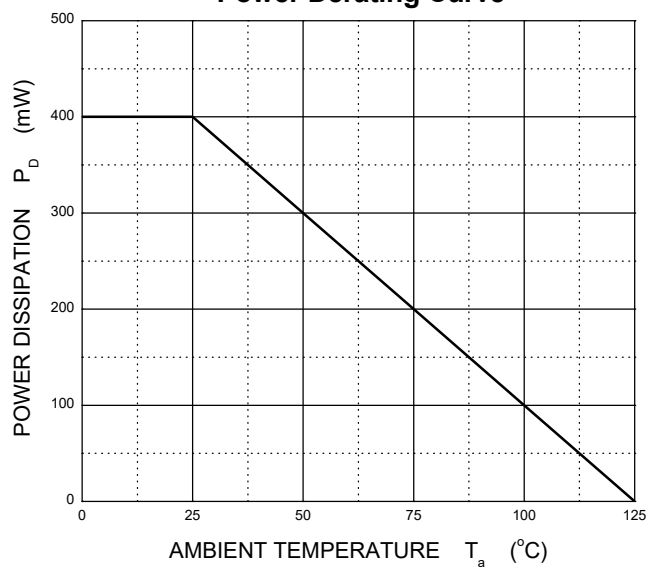
Reverse Characteristics



Capacitance Characteristics

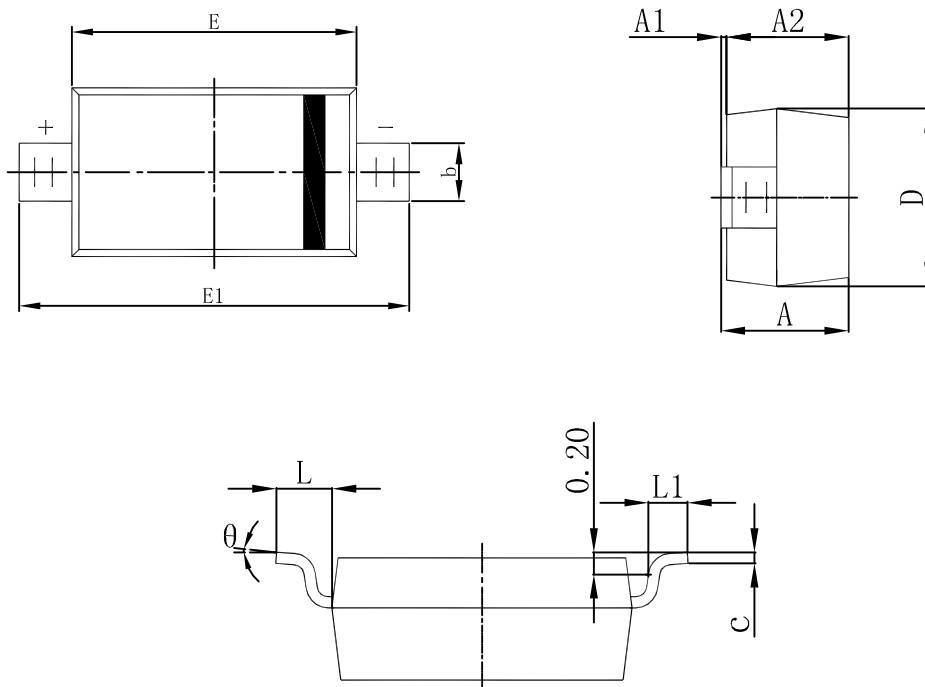


Power Derating Curve





SOD-123 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°



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