



## Features

- Peak Forward Current:  $I_{FM}=350\text{ mA}$
- Power Dissipation of 200mW

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAT48JFILM	SOD-323	S4	3000



SOD-323



## Maximum Ratings (Ta=25°C unless otherwise noted)

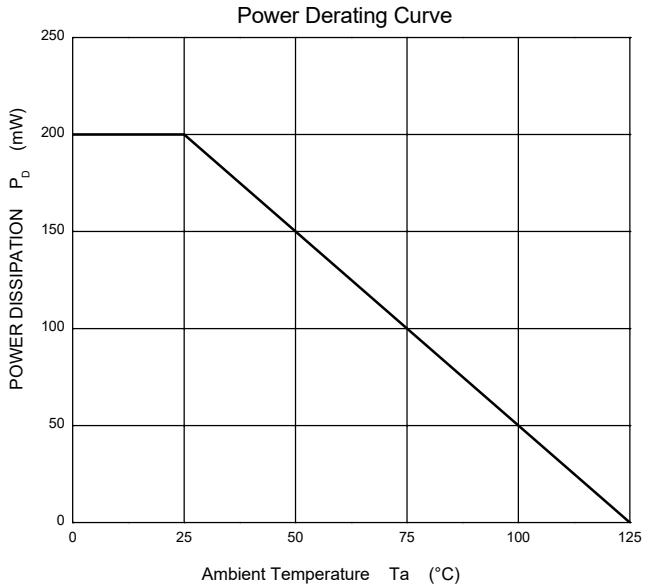
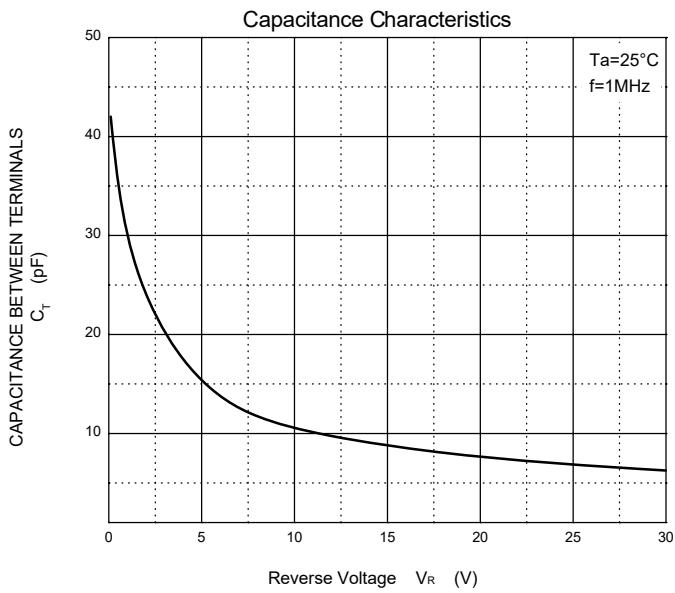
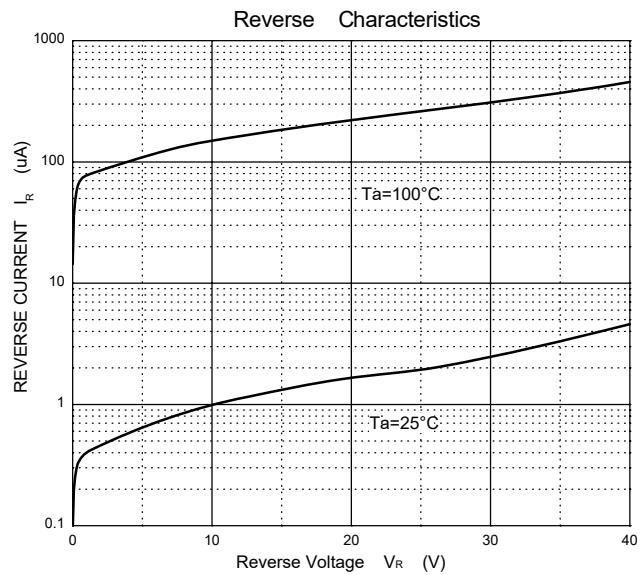
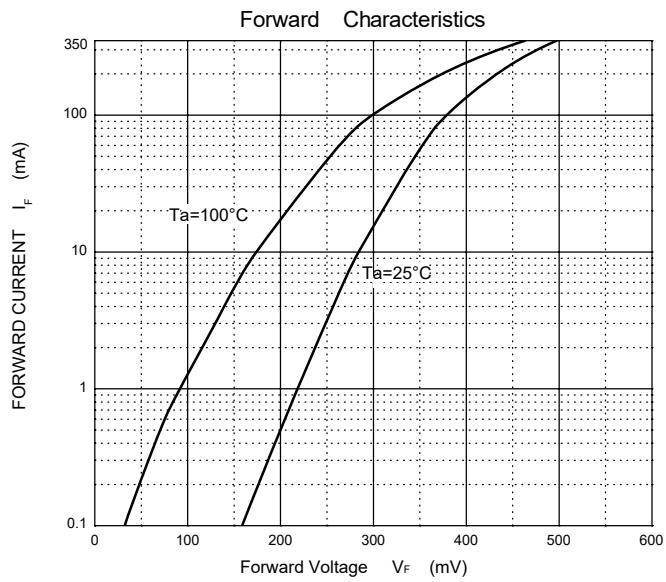
Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$		
Working Peak Reverse Voltage	$V_{RWM}$	40	V
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Forward Continuous Current	$I_{FM}$	350	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	$I_{FSM}$	2.0	A
Power Dissipation	$P_d$	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Junction Temperature	$T_j$	-40~+125	°C
Storage Temperature	$T_{STG}$	-55~+150	°C

## Electrical Characteristics (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	40			V
Reverse current	$I_R$	$V_R=30\text{V}$			5	$\mu\text{A}$
		$V_R=20\text{V}$			2	
		$V_R=10\text{V}$			1	
Forward voltage	$V_F$	$I_F=1\text{mA}$		0.27		V
		$I_F=5\text{mA}$		0.32		
		$I_F=20\text{mA}$			0.37	
		$I_F=200\text{mA}$			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

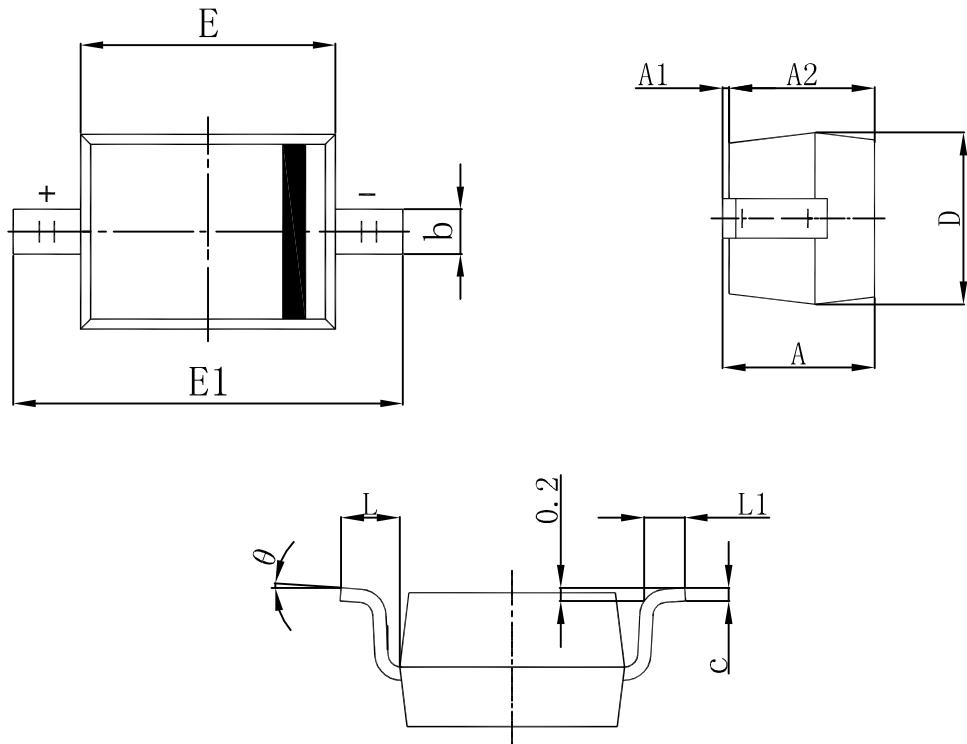


## Typical Characteristics





### SOD-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		1.100		0.043
A1	0.000	0.100	0.000	0.004
A2	0.800	1.000	0.031	0.039
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.500	2.750	0.098	0.108
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°



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