



## Features

- Forward Continuous Current:  $I_F = 70\text{mA}$
- Power Dissipation of 200mW



SOD-323



## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAS170WS-E3-08	SOD-323	K73	3000

## Maximum Ratings ( $T_a = 25^\circ\text{C}$ unless otherwise noted)

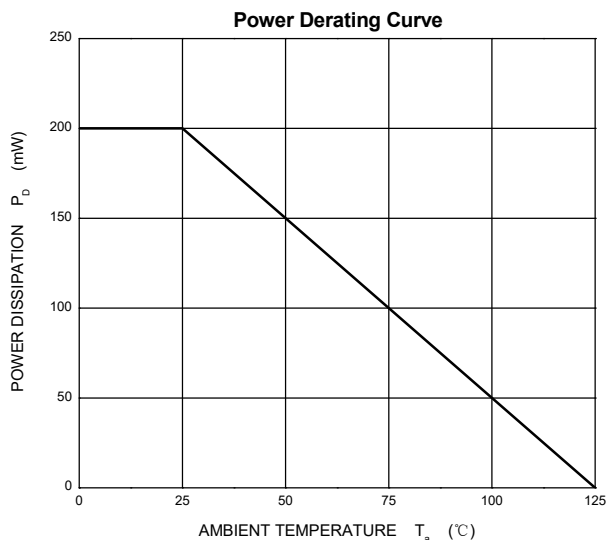
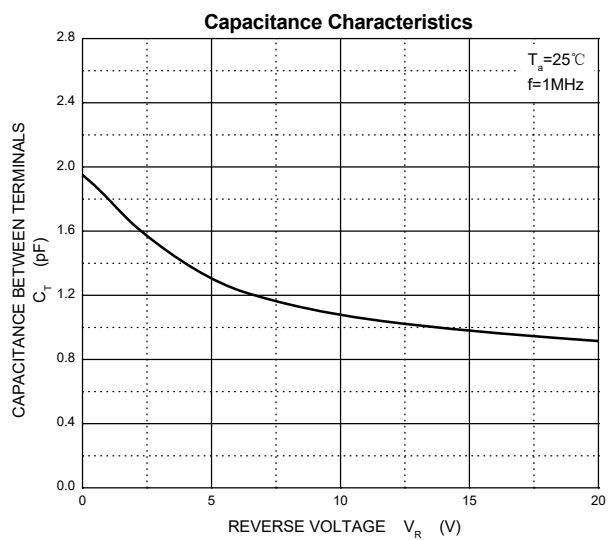
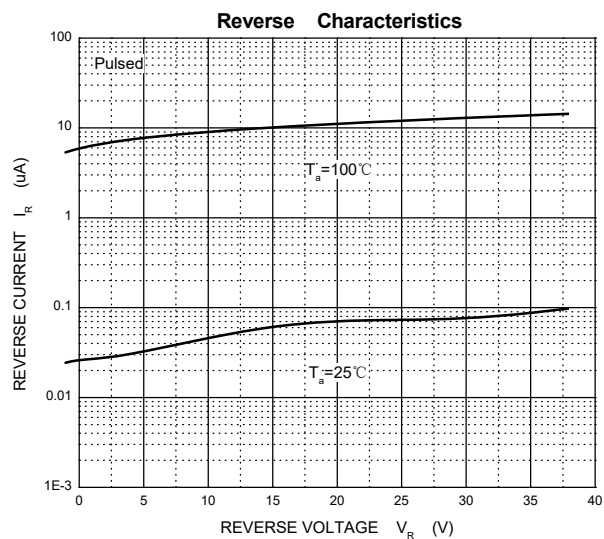
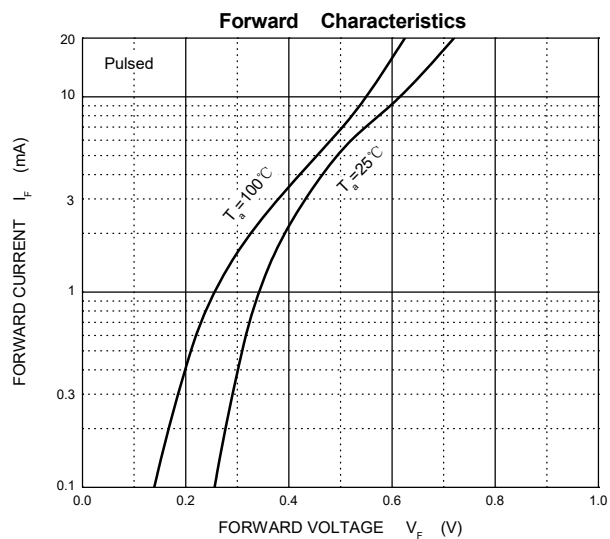
Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$	70	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
Forward Continuous Current	$I_F$	70	mA
Non-repetitive Peak Forward Surge Current @ $t = 8.3\text{ms}$	$I_{FSM}$	100	mA
Power Dissipation	$P_D$	200	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_J$	$-40 \sim +125$	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	$-55 \sim +150$	$^\circ\text{C}$

## Electrical Characteristics ( $T_a = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	$V_{F1}$			0.41	V	$I_F = 1\text{mA}$
	$V_{F2}$			1	V	$I_F = 15\text{mA}$
Reverse current	$I_R$			100	nA	$V_R = 50\text{V}$
Capacitance between terminals	$C_T$			2	pF	$V_R = 0\text{V}, f = 1\text{MHz}$
Reverse recovery time	$t_{rr}$			5	ns	$I_F = I_R = 10\text{mA}$ $I_{rr} = 0.1 I_R, R_L = 100\Omega$

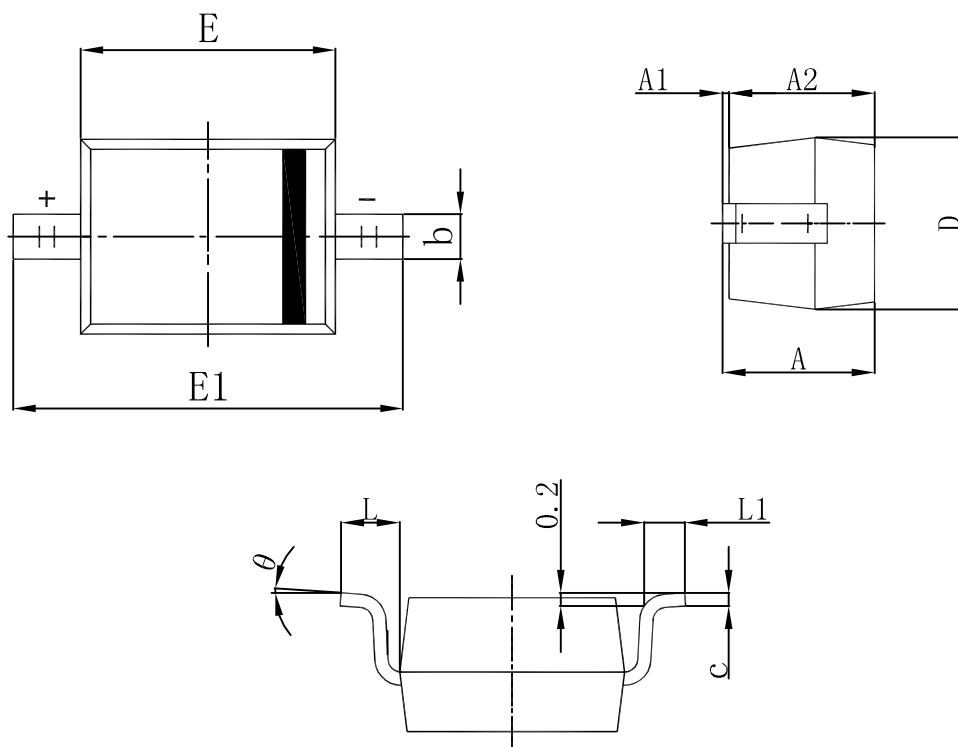


## Typical Characteristics





## 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
$\theta$	0°	8°	0°	8°



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