



Features

- Peak Forward Current: $I_{FM}=0.35A$
- Power Dissipation of 400mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
B0520WS-7-F	SOD-323	SD	3000
B0530WS-7-F	SOD-323	SE	3000
B0540WS-7-F	SOD-323	SF	3000



SOD-323



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

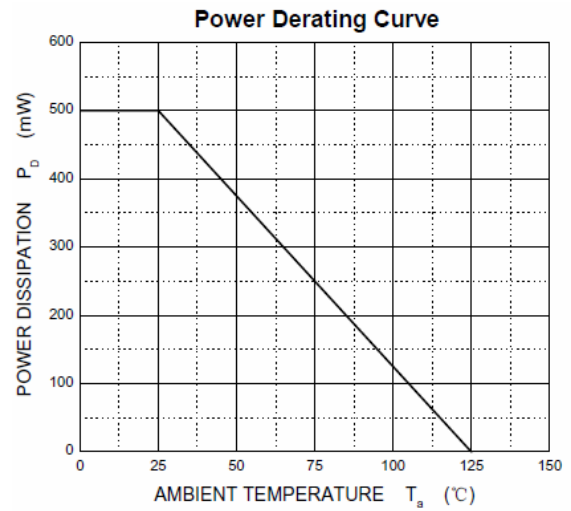
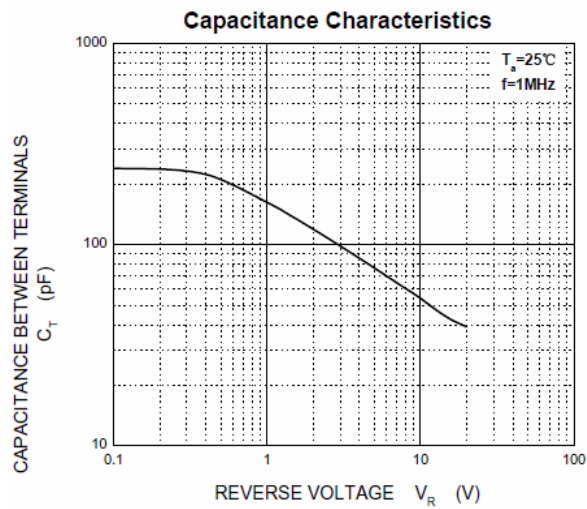
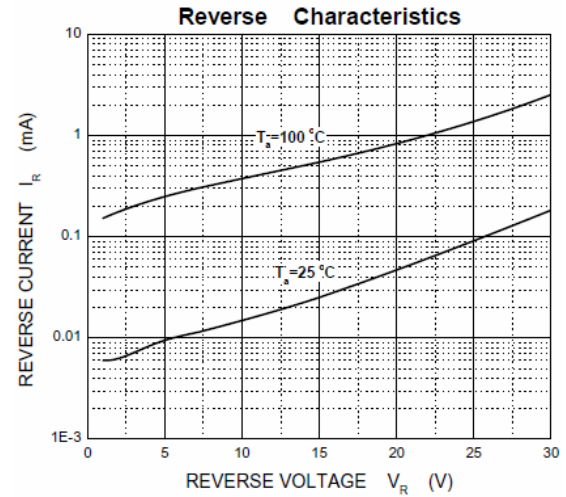
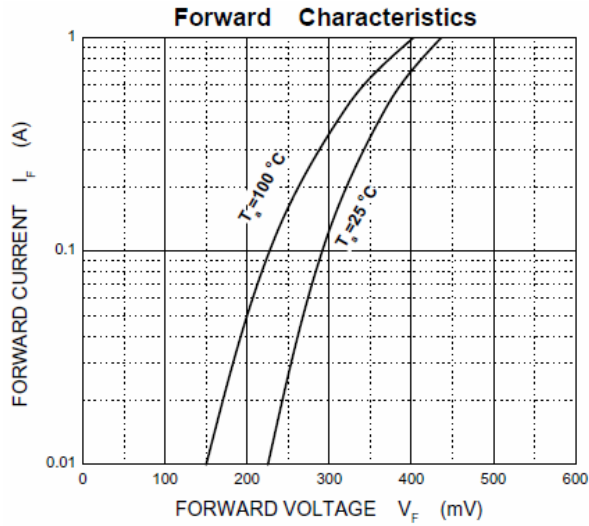
Parameter	Symbol	B0520WS-7-F	B0530WS-7-F	B0540WS-7-F	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}				
Working Peak Reverse Voltage	V_{RWM}	20	30	40	V
DC Blocking Voltage	V_R				
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Forward Continuous Current	I_{FM}	350			mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	1.5			A
Power Dissipation	P_d	400			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	300			°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	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)}$				V	
B0540WS-7-F		40				$I_R=10\mu A$
B0530WS-7-F		30				$I_R=10\mu A$
B0520WS-7-F		20				$I_R=10\mu A$
Forward voltage	V_F			0.37 0.60	V	$I_F=20mA$ $I_F=1A$
Reverse current	I_{RM}			5.0	μA	$V_R=30V$ $V_R=20V$ $V_R=10V$
Capacitance between terminals	C_T		50		pF	$R=0V, f=1.0MHz$
Reverse recovery time	t_{rr}		10		ns	$I_F=I_R=200mA$ $I_{rr}=0.1I_R, R_L=100\Omega$



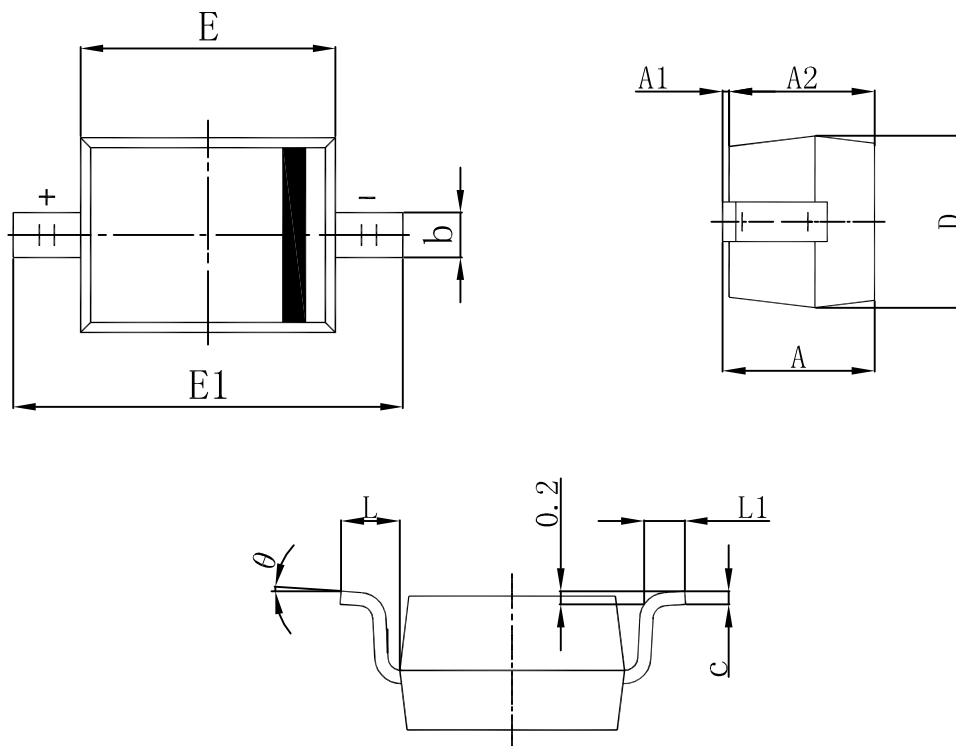
Typical Characteristics





Package Outline Dimensions

SOD-323



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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