



Features

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



SOD-323



Package Marking and Ordering Information

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

Maxmim Ratings (Ta=25 unless otherwise noted)

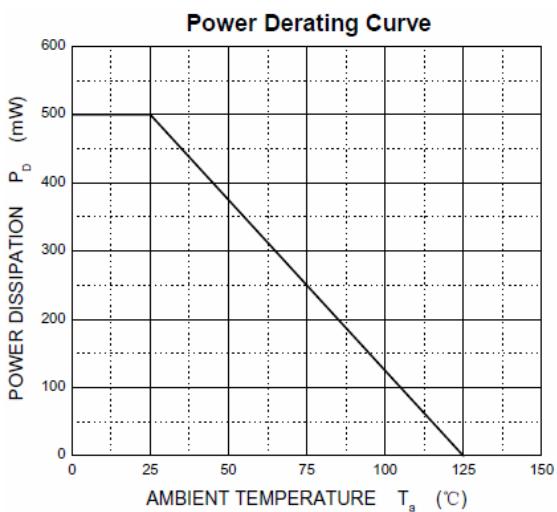
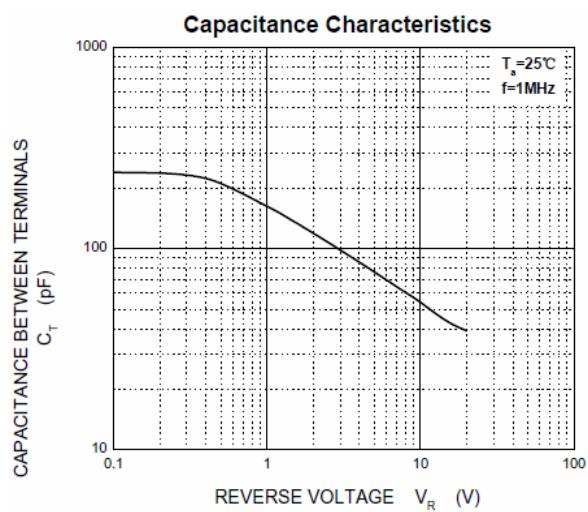
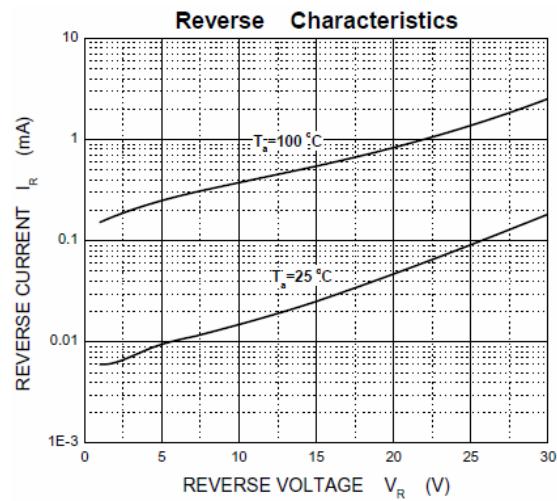
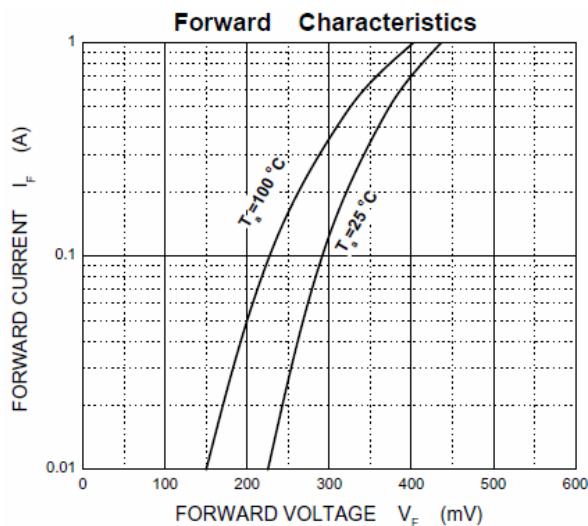
Parameter	Symbol	B0520WS	B0530WS	B0540WS	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}				
Working Peak Reverse Voltage	V_{RWM}	20	30	40	V
DC Blocking Voltage	V_R				
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Forward Continuous Current	I_{FM}		350		mA
Bcblfepetitive Peak Forward Surge Current @t1, " a s	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

Electrcal Charcteristics (Ta=25 unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage						
B0540WS	$V_{(BR)}$	40			V	$I_R=10\mu A$
B0530WS		30				$I_R=10\mu A$
B0520WS		20				$I_R=10\mu A$
Forward voltage	V_F			0.37 0.60	V	$I_F=20mA$ $I_F=1A$
Reverse current						
B0540WS	I_{RM}			5.0	μA	$V_R=30V$
B0530WS						$V_R=20V$
B0520WS						$V_R=10V$
Capacitance between terminals	C_T		50		pF	$R=0V, f=1.0MHz$
Reverse recovery time	t_{rr}		10		ns	$I_F=I_R=200mA$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$



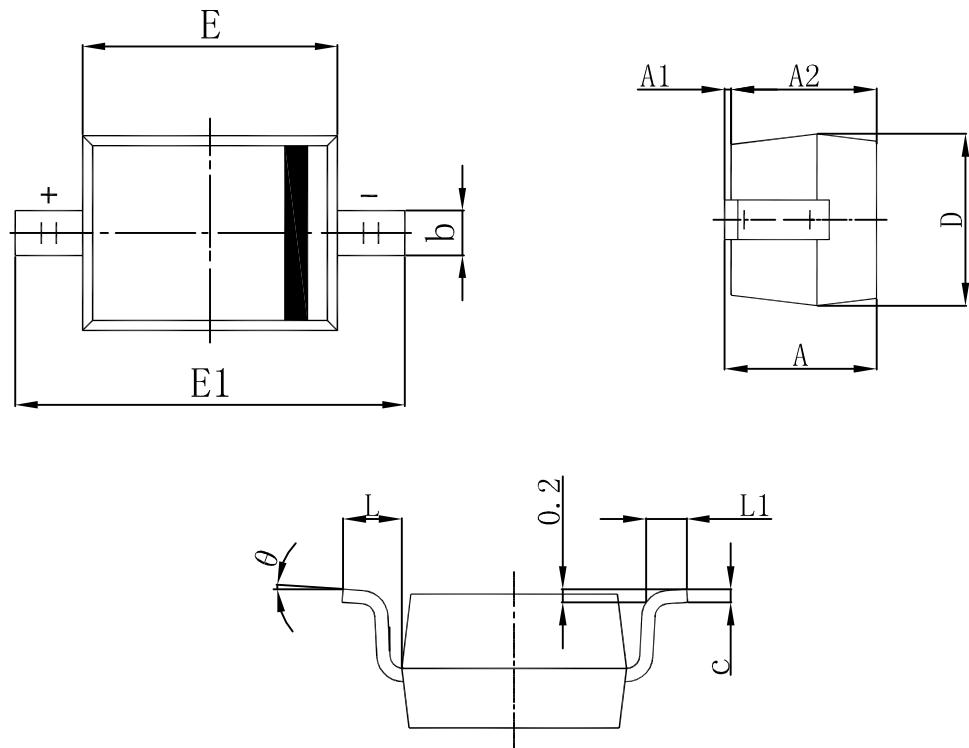
Typical Characteristics





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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