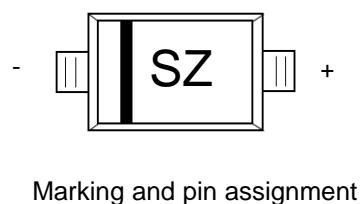
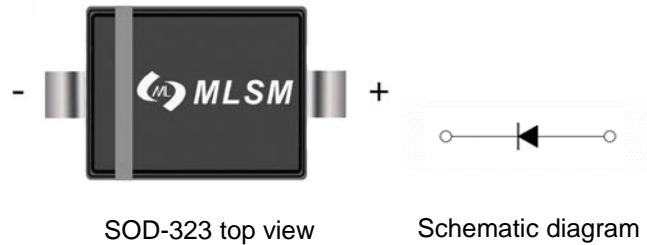


Features

- Low Forward Voltage Drop
- Very Small SMD Package

Applications

- Low Voltage Rectification
- High Efficiency DC/DC Conversion
- Switch Mode Power Supply
- Inverse Polarity Protection
- Low Power Consumption Applications


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

Symbol	Parameter	Value	Unit
V_{RRM}	Maximum recurrent peak reverse voltage	40	V
V_{RWM}	Working Peak Reverse Voltage		
$V_{R(\text{RMS})}$	RMS Reverse Voltage		
I_O	Average Rectified Output Current		
I_{FSM}	Non-repetitive Peak Forward Surge Current@ $t=8.3\text{ms}$	5	A
P_D	Power Dissipation	250	mW
R_{OJA}	Thermal resistance junction to ambient air	400	°C/W
T_J	Operating Junction Temperature Range	-40~+125	°C
T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

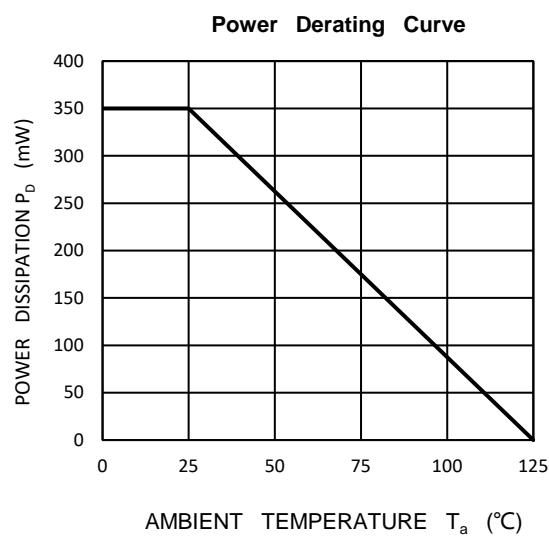
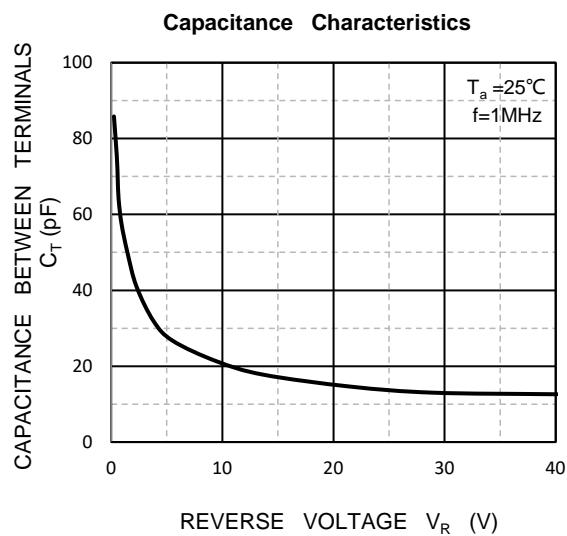
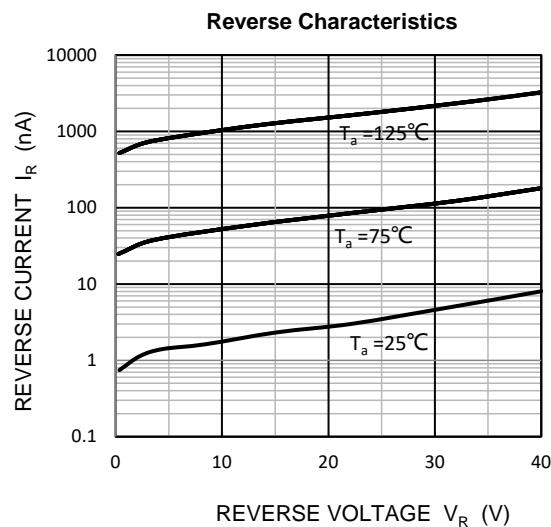
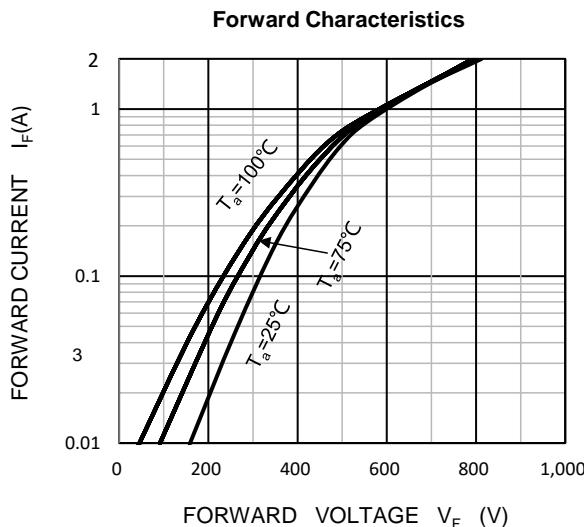
ELECTRICAL CHARACTERISTICS($T_a=25^\circ\text{C}$ unless otherwise specified)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse voltage	$I_R=1\text{mA}$	40	--	--	V
I_R	Reverse voltage leakage current	$V_R=20\text{V}$	--	--	50	uA
V_F	Forward voltage	$I_F=0.5\text{A}$	--	--	0.51	V
		$I_F=0.7\text{A}$	--	--	0.55	V
C_{tot}	Total capacitance	$V_R=10\text{V}, f=1\text{MHz}$	--	--	20	pF

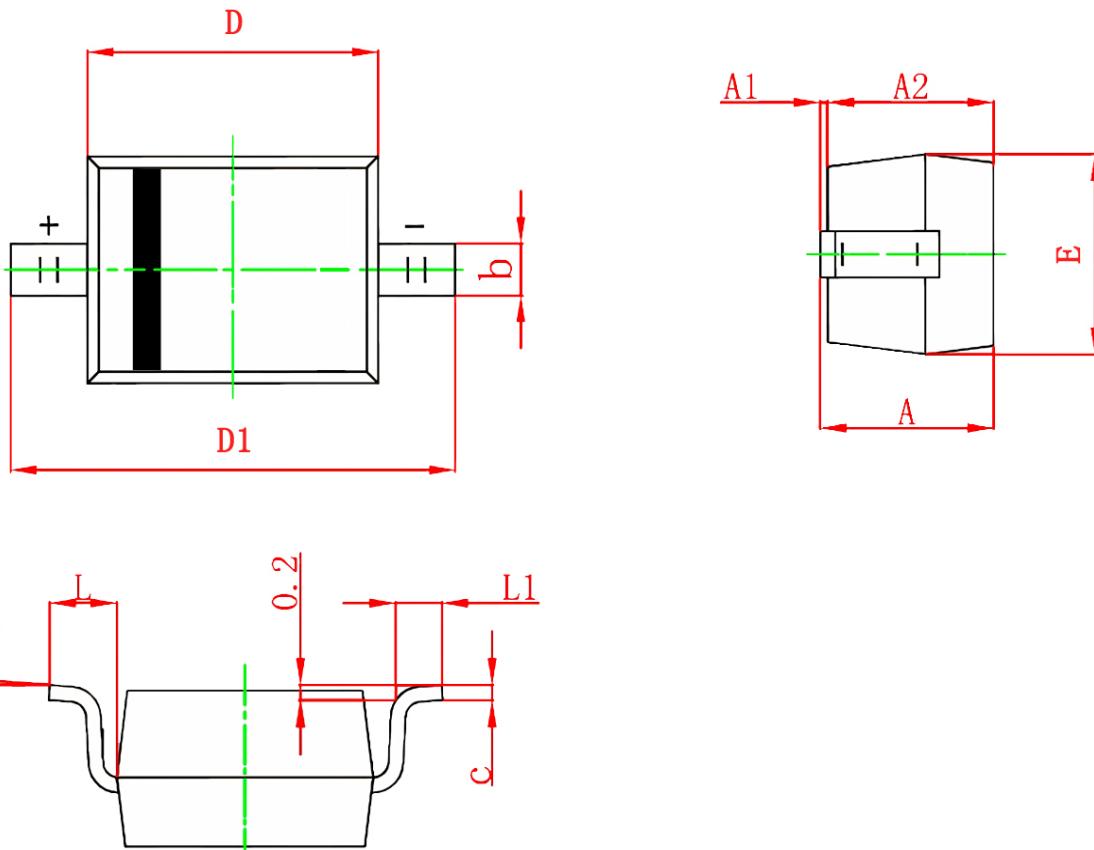
Ordering Information (Example)

Type	Package	Marking	Minimum	Inner Box	Outer	Delivery
B1040WS	SOD-323	SZ	3,000	45,000	180,000	7" reel

Typical Operating Characteristics



SOD-323 Package information



Symbol	Dimensions in Millimeters(mm)		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	1.600	1.800	0.063	0.071
D1	2.500	2.750	0.098	0.108
E	1.200	1.400	0.047	0.055
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°