

Features

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications





Package Marking and Ordering Information

Product ID	Pack	Pack Marking	
B110WS	SOD-323	110	3000

Absolute Maximum Ratings and Electrical characteristics

Ratings at $25\,^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by $20\,\%$

Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V _{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1.0	А
Max Instantaneous Forward Voltage at 1 A	V _F	0.85	V
Typical Junction Capacitance (1)	Cj	80	pF
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	25	А
Maximum DC Reverse Current T _A =25°C	IR .	0.2	
at Rated DC Reverse Voltage T _A =100°C	IK	5	mA
Operating Junction Temperature Range	TJ	-55 ~ +125	℃
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C



Typical Characteristics

Fig.1 Forward Current Derating Curve

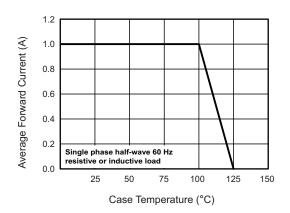


Fig.2 Typical Reverse Characteristics

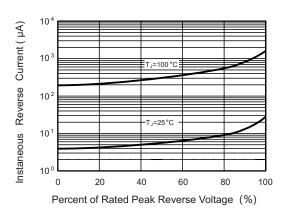


Fig.3 Typical Forward Characteristic

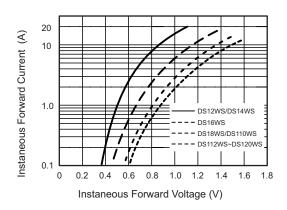


Fig.4 Typical Junction Capacitance

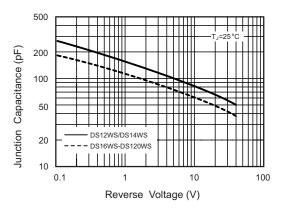
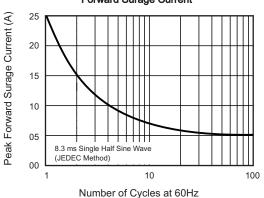
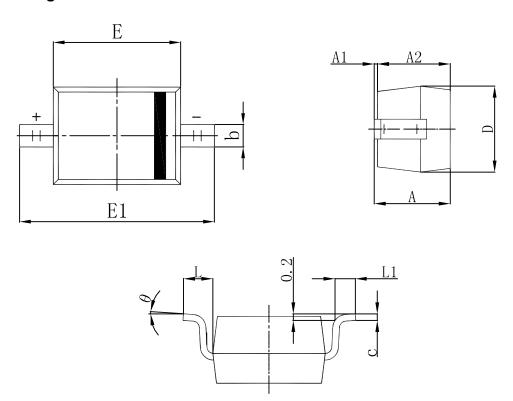


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current





SOD-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
Symbol	Min	Max	Min	Max
Α		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
С	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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