FEATURES

- High Current Rectifier Schottky Diode with Low V_F Drop
- Low Voltage, Low Inductance
- For Power Supply
- For Detection and Step-up-Conversion

SOD-323

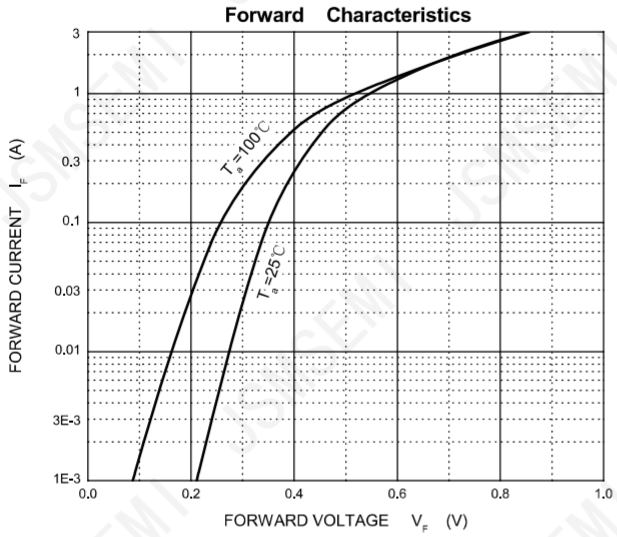
MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

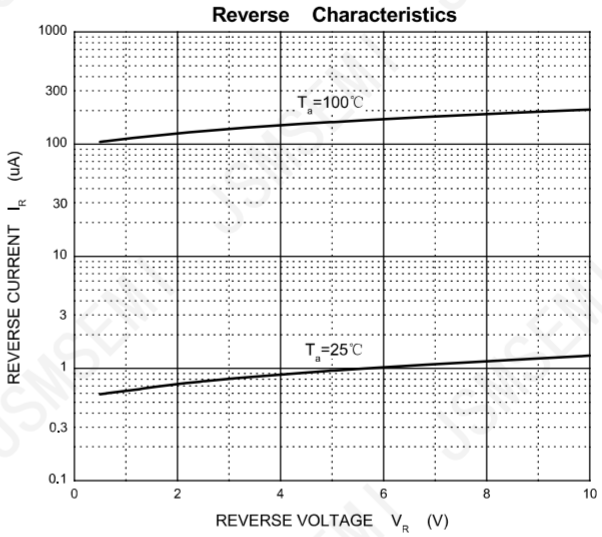
Symbol	Parameter	Value	Unit
V_R	DC Blocking Voltage	10	V
I_F	Forward Current	3	A
I_{FSM}	Non-repetitive Peak Forward Surge Current @t=8.3ms	5	
P_D	Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	286	℃/W
T_j	Operating Junction Temperature Range	-40 ~ +125	℃
T_{stg}	Storage Temperature Range	-55 ~ +150	℃

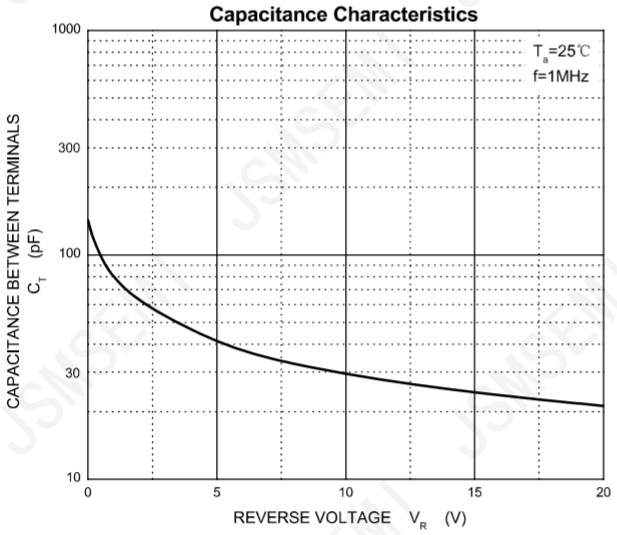
ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise specified)

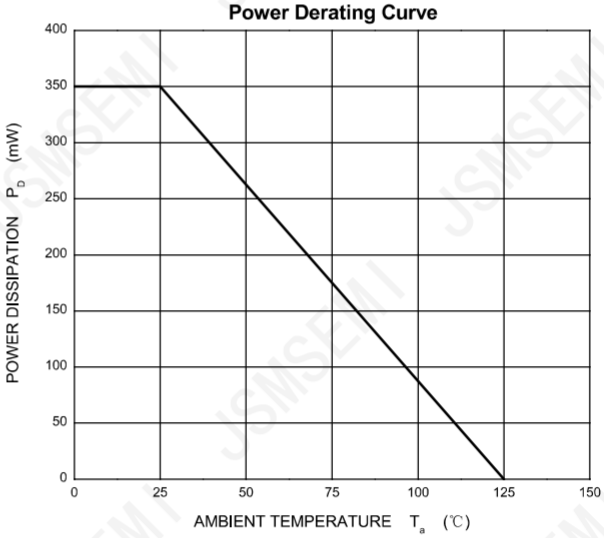
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=1mA	10			V
Reverse current	I_R	V_R=5V			15	μA
		V_R=8V			25	μA
Forward voltage	V_F	I_F=100mA			0.38	V
		I_F=500mA			0.5	
		I_F=1000mA			0.6	
Total capacitance	C_{tot}	V_R=5V,f=1MHz		30		pF

Typical Characteristics

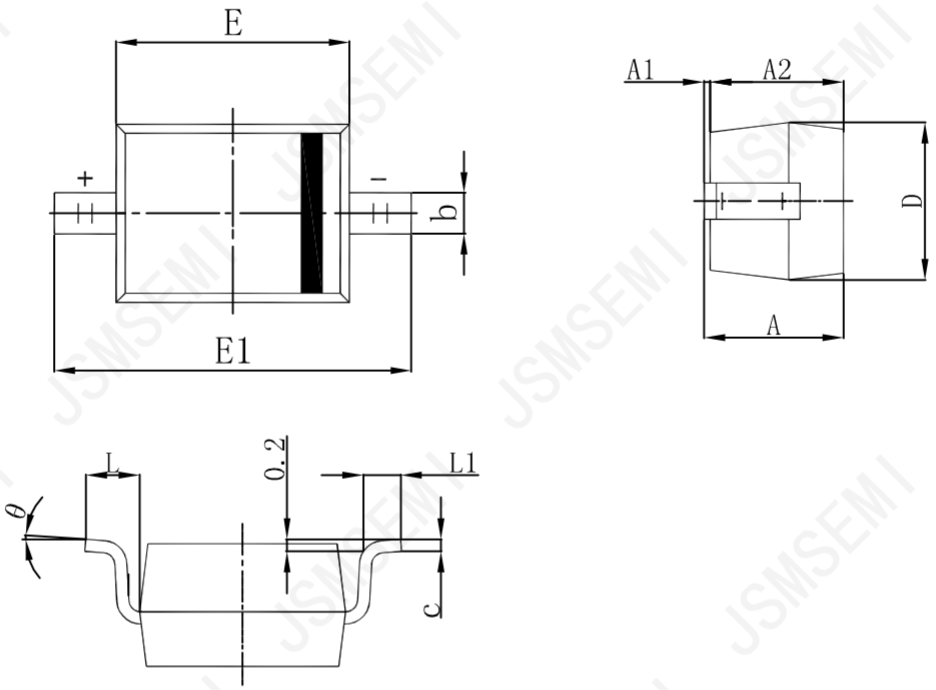








SOD-323 Package Outline Dimensions



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
θ	0°	8°	0°	8°

Revision History

Rev.	Change	Date
V1.0	Initial version	6/27/2021

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