

**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**



**MARKING: W5**



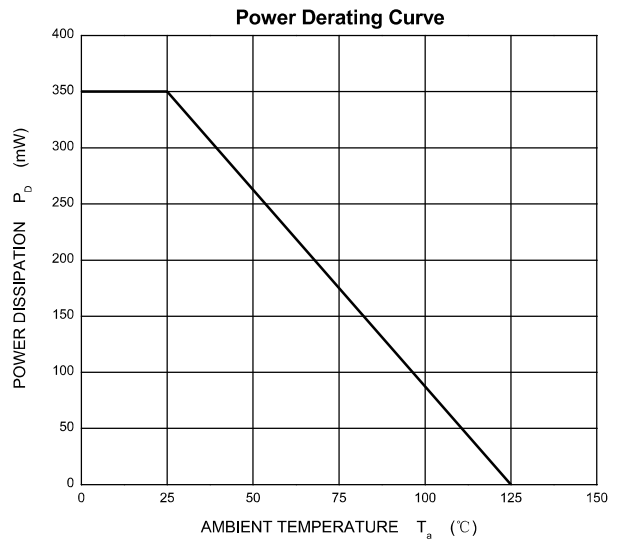
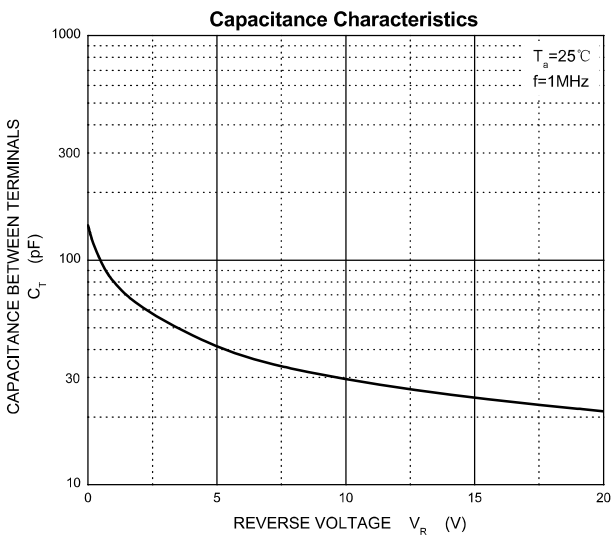
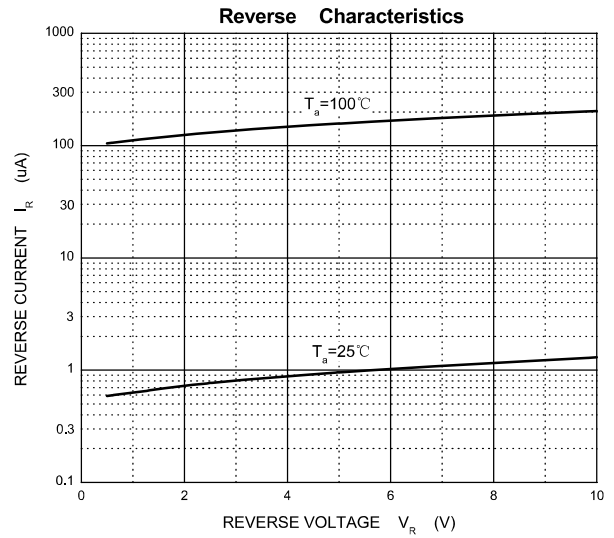
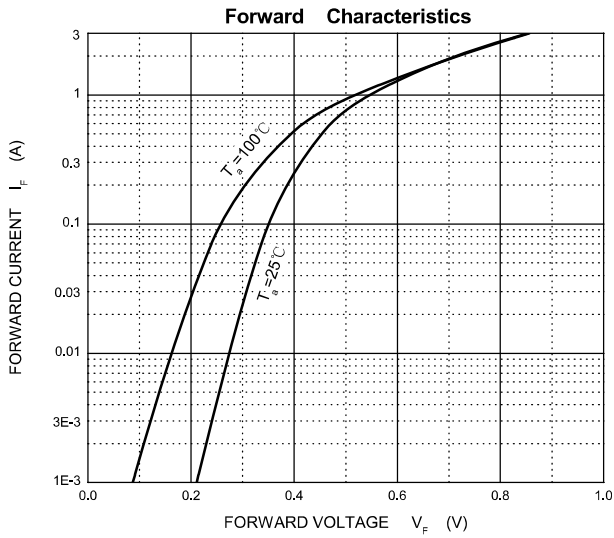
**MAXIMUM RATINGS (  $T_a=25^{\circ}\text{C}$  unless otherwise noted )**

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 @ $t=8.3\text{ms}$	5	
$P_D$	Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	286	$^{\circ}\text{C/W}$
$T_j$	Operating Junction Temperature Range	-40 ~ +125	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	-55 ~ +150	$^{\circ}\text{C}$

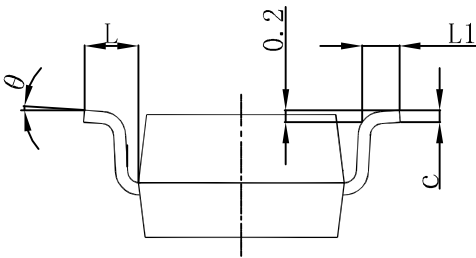
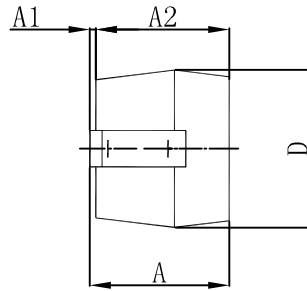
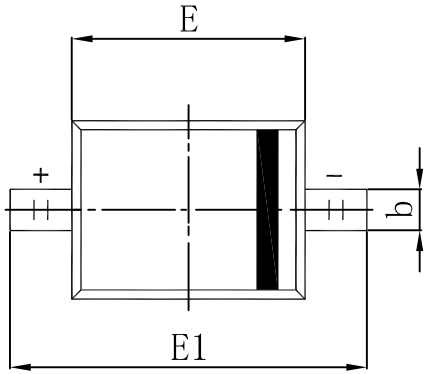
**ELECTRICAL CHARACTERISTICS( $T_a=25^{\circ}\text{C}$  unless otherwise specified)**

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