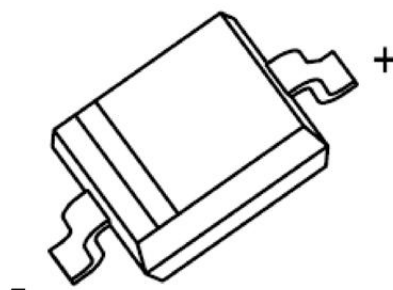


SD103AWS Schottky Barrier Diode
Feature

- Low Forward Voltage Drop
- Low V_F
- Low I_R
- High Reliability

MARKING:

SOD-323

Schematic diagram

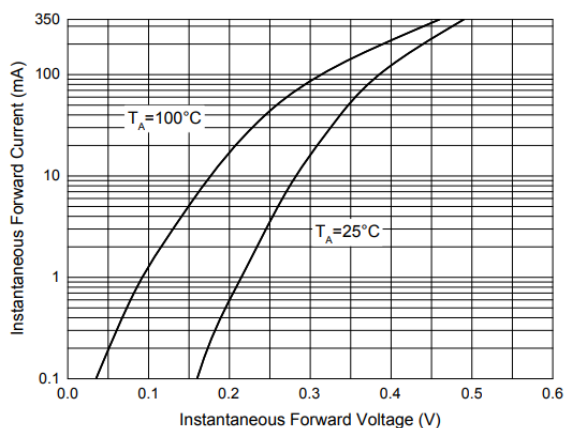
ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
DC Reverse Voltage	V_R	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Forward Continuous Current	I_{FM}	0.35	A
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	2	A
Power Dissipation	P_D	0.2	W
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +125	$^{\circ}\text{C}$

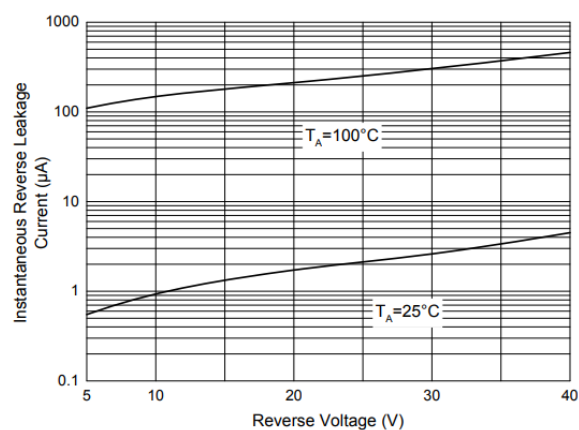
ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse Voltage	V_{BR}	$I_R = 100\mu\text{A}$	40			V
Forward Voltage	V_F	$I_F = 20\text{mA}$			0.37	V
		$I_F = 200\text{mA}$			0.60	V
Reverse Current	I_R	$V_R = 30\text{V}$			5	μA
Capacitance Between Terminals	C_T	$V_R=0, f=1\text{MHz}$			50	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=200\text{mA}, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$		10		ns

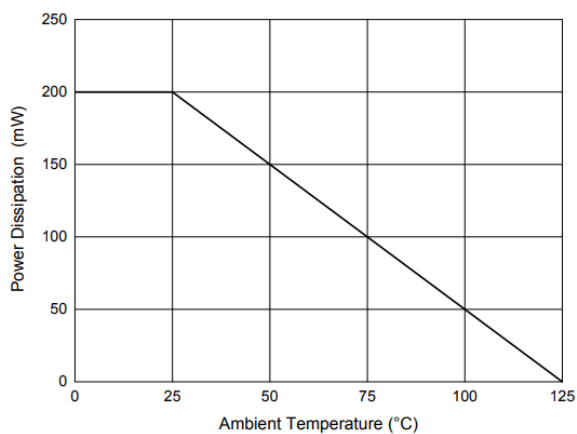
Typical Characteristics



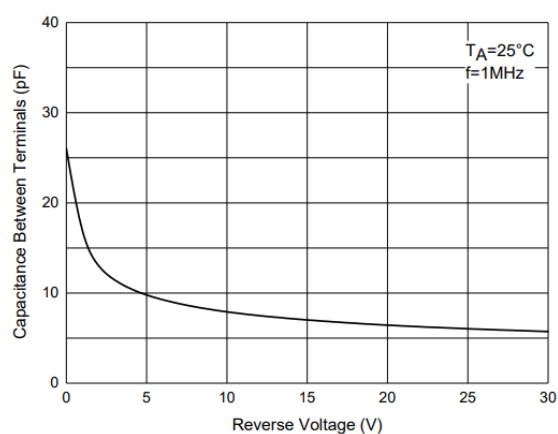
Typical Instantaneous Forward Characteristics



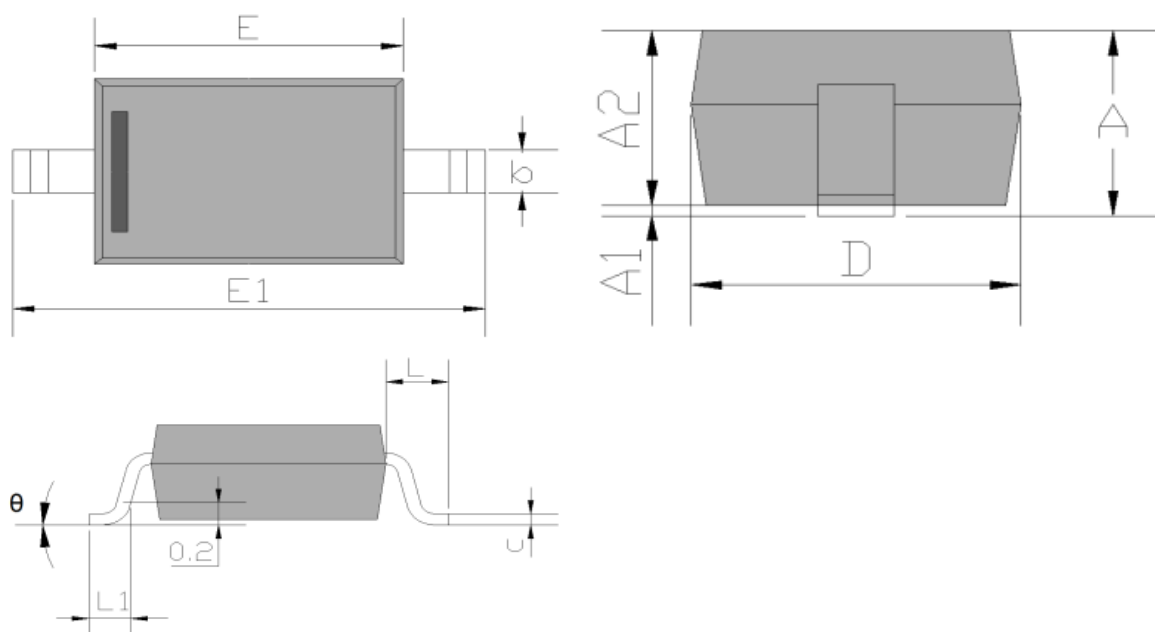
Typical Reverse Leakage Characteristics



Power Derating Curve



Capacitance Characteristics

SOD-323 Package Outline Dimensions


Symbol	Dimensions in mm	
	Min.	Max.
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475 REF.	
L1	0.250	0.400
θ	0°	8°

Attention:

- GreenPower Electronics reserves the right to improve product design function and reliability without notice.
- Any and all semiconductor products have certain probability to fail or malfunction, which may result in personal injury, death or property damage. Customer are solely responsible for providing adequate safe measures when design their systems.
- GreenPower Electronics products belong to consumer electronics or other civilian electronic products.