

DS551V-30 Schottky Barrier Diode

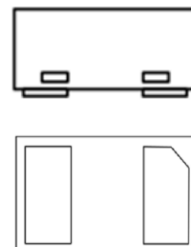
Feature

- Small Power Mold Type
- Low V_F
- Low I_R
- High Reliability

Application

- High Frequency Inverters
- Free Wheeling
- Polarity Protection Applications

DFN1006-2L



Schematic diagram



MARKING:



Front Side

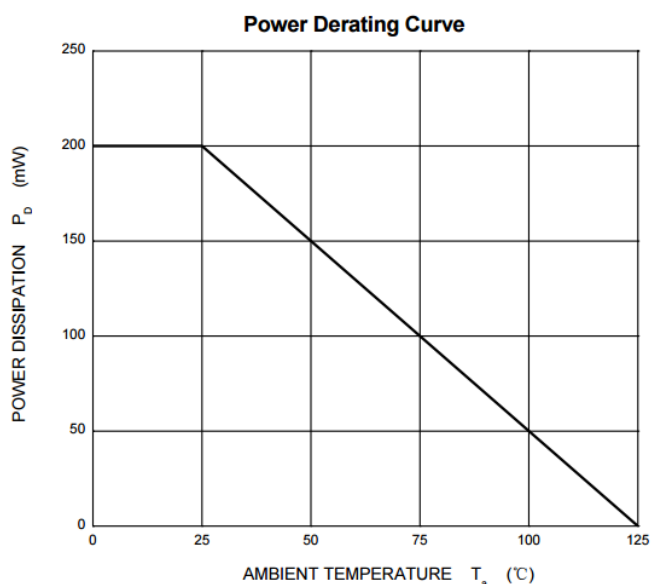
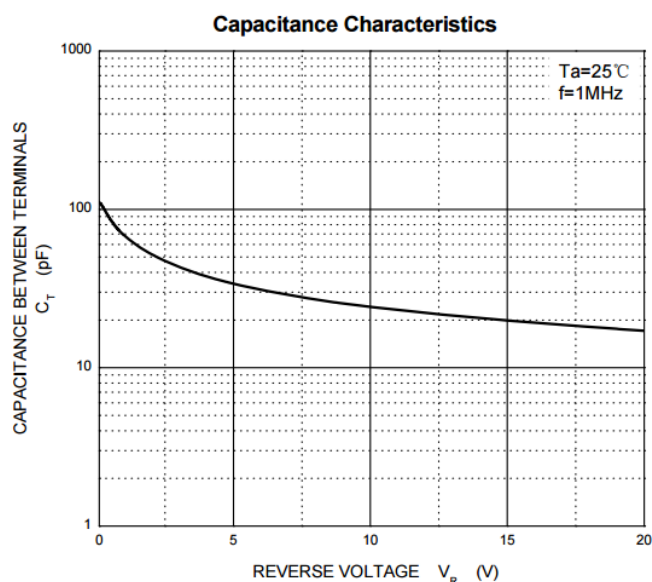
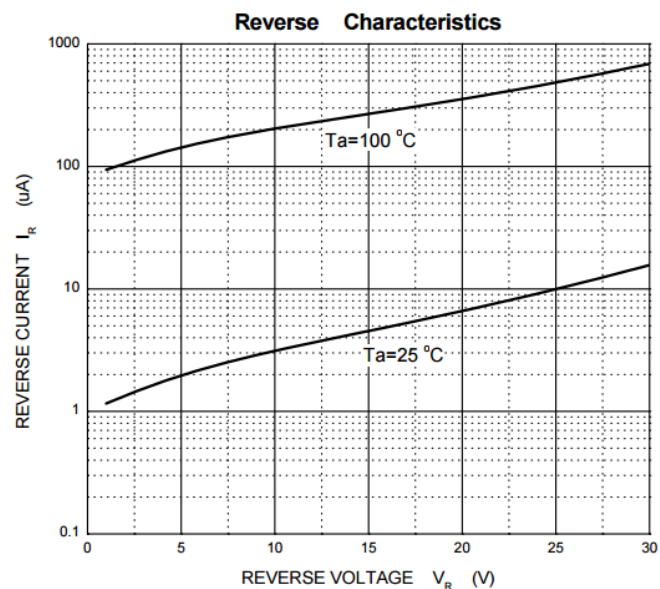
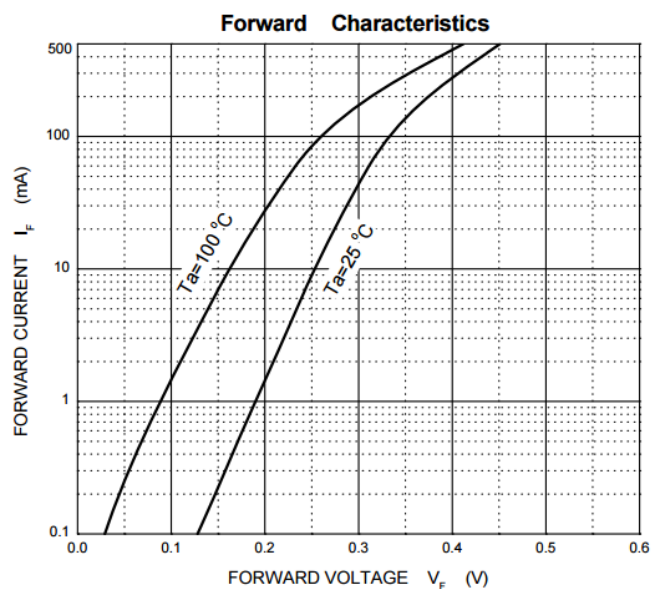
ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

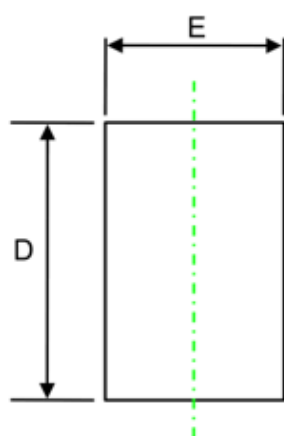
Parameter	Symbol	Value	Unit
DC Reverse Voltage	V_R	30	V
Mean Rectifying Current	I_O	0.5	A
Non-Repetitive Peak Forward Surge Current @ $T=8.3\text{ms}$	I_{FSM}	2	A
Power Dissipation	P_D	0.1	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	100	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^\circ\text{C}$

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

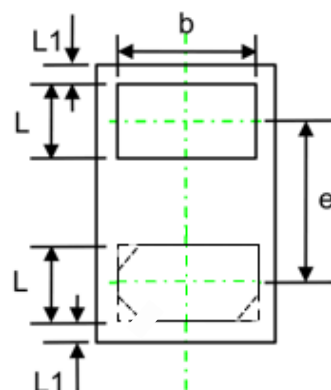
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse Voltage	V_{BR}	$I_R = 100\mu\text{A}$	30			V
Forward Voltage	V_F	$I_F = 0.1\text{A}$			0.36	V
		$I_F = 0.5\text{A}$			0.47	V
Reverse Current	I_R	$V_R = 20\text{V}$			100	μA
Diode Capacitance	C_D	$V_R = 4\text{V}, f = 1\text{MHz}$		20		pF

Typical Characteristics

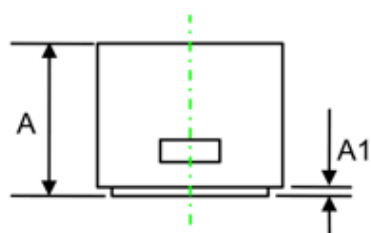


DFN1006-2L Package Outline Dimensions


TOP VIEW
[顶视图]



BOTTOM VIEW
[底视图]



SIDE VIEW
[侧视图]

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.400	0.550	0.016	0.022
A1	0.000	0.050	0.000	0.002
D	0.950	1.050	0.037	0.041
E	0.550	0.650	0.022	0.026
b	0.400	0.600	0.016	0.024
e	0.65 TYP		0.026 TYP	
L1	0.05 REF		0.002 REF	
L	0.200	0.300	0.008	0.012

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. Customers are solely responsible for providing adequate safe measures when design their systems.
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