

**DS521-30A1 Schottky Barrier Diode**

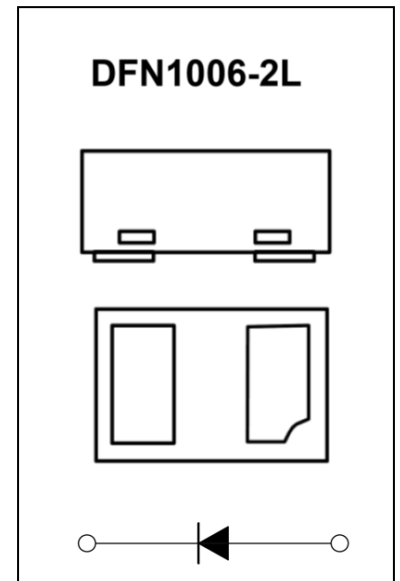
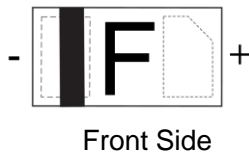
**Feature**

- Small surface mounting type
- low forward voltage
- High reliability

**Application**

- High speed switch for detection
- For portable equipment:( Mobile phone, MP3, MD, CD-ROM, DVD-ROM, Note book PC, etc.)

**MARKING:**



**ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)**

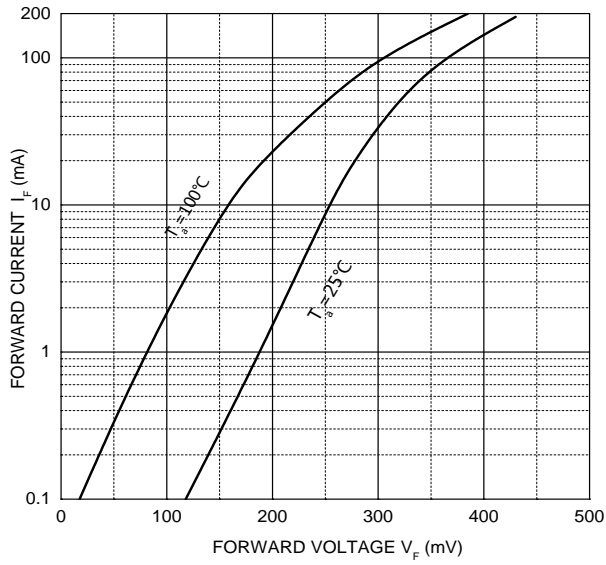
Parameter	Symbol	Value	Unit
DC reverse voltage	V <sub>R</sub>	30	V
RMS reverse Voltage	V <sub>R(RMS)</sub>	21	V
Mean rectifying current	I <sub>o</sub>	0.2	A
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I <sub>FSM</sub>	1	A
Power Dissipation	P <sub>D</sub>	100	mW
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	1000	°C/W
Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature	T <sub>STG</sub>	-55 ~ +150	°C

**ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C unless otherwise noted)**

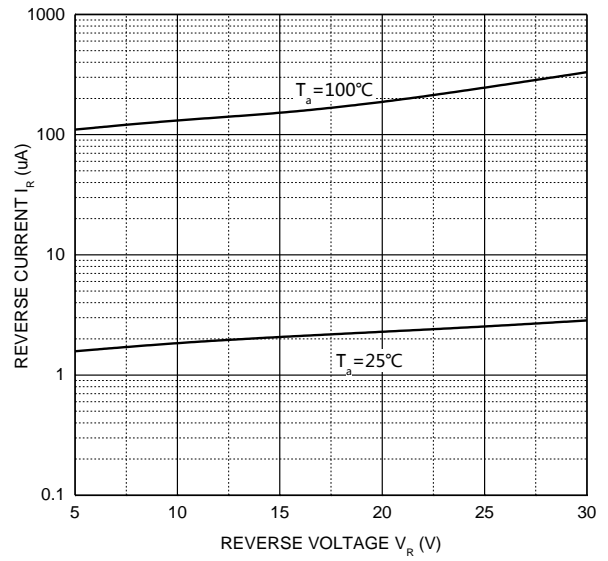
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V <sub>BR</sub>	I <sub>R</sub> =100uA	30			V
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =10mA			0.35	V
		I <sub>F</sub> =200mA			0.5	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =10V			30	μA

**Typical Characteristics**

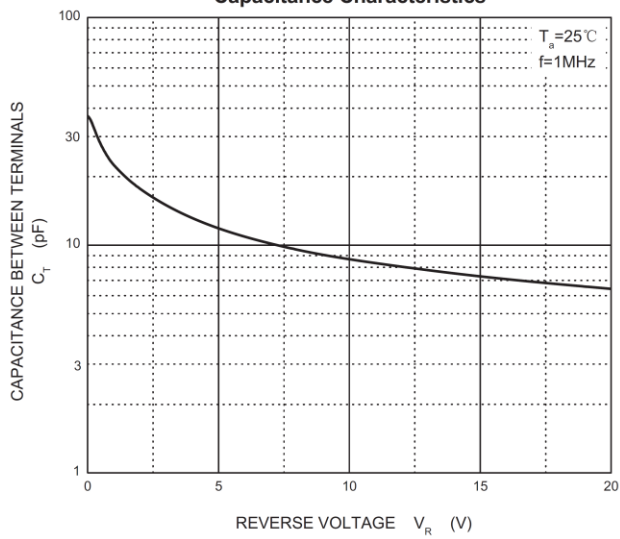
**Forward Characteristics**



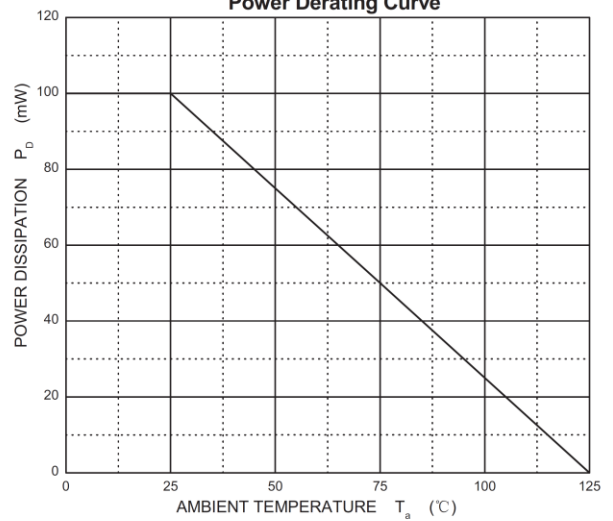
**Reverse Characteristics**

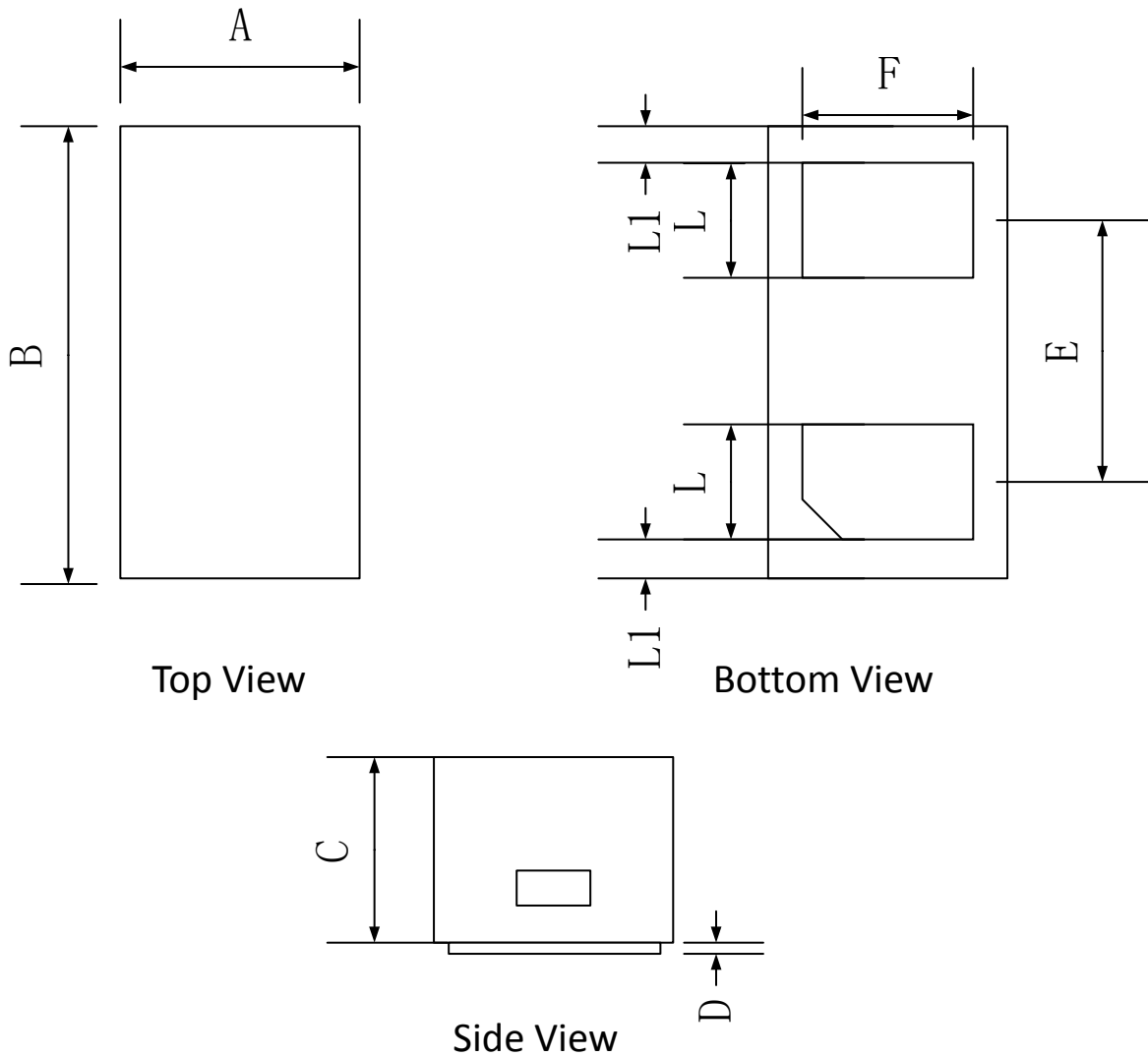


**Capacitance Characteristics**



**Power Derating Curve**



**DFN1006-2L Package Outline Dimensions**


	Dimensions In Millimeters		
	Min.	Typ.	Max.
A	0.55	0.60	0.68
B	0.95	1.00	1.08
C	0.44	0.47	0.50
D	0.00	0.03	0.05
E	-	0.65	-
F	0.40	0.50	0.60
L	0.20	0.25	0.30
L1	0.05REF		