



**DS520Y-30 Schottky Barrier Diode**

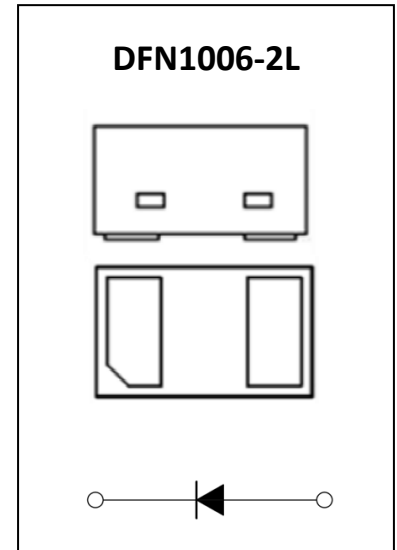
**Feature**

- Small surface mounting type
- Low reverse current and 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:E**



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

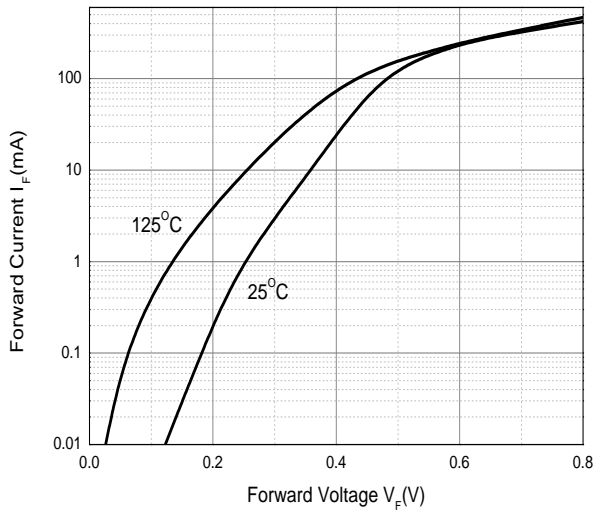
Parameter	Symbol	Value	Unit
DC reverse voltage	V <sub>R</sub>	30	V
RMS reverse Voltage	V <sub>R(RMS)</sub>	21	V
Mean rectifying current	I <sub>o</sub>	0.2	A
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I <sub>FSM</sub>	0.5	A
Power Dissipation	P <sub>D</sub>	100	mW
Thermal Resistance from Junction 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)**

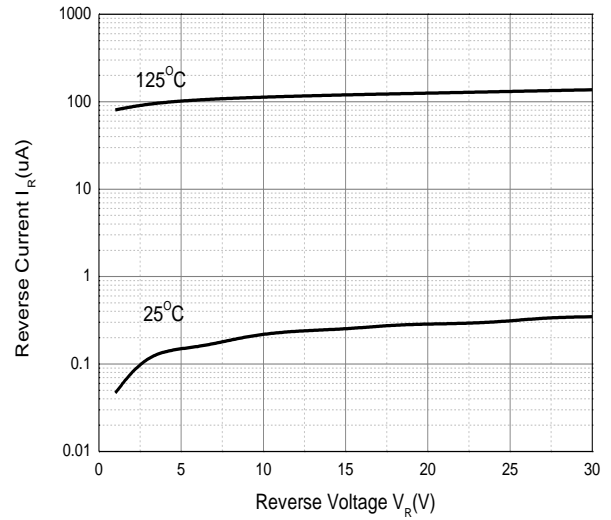
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V <sub>BR</sub>	I <sub>R</sub> =100uA	40			V
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =10mA		0.33	0.45	V
		I <sub>F</sub> =100mA		0.48	0.6	V
		I <sub>F</sub> =200mA		0.58	0.65	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =10V		0.35	1	μA

**Typical Characteristics**

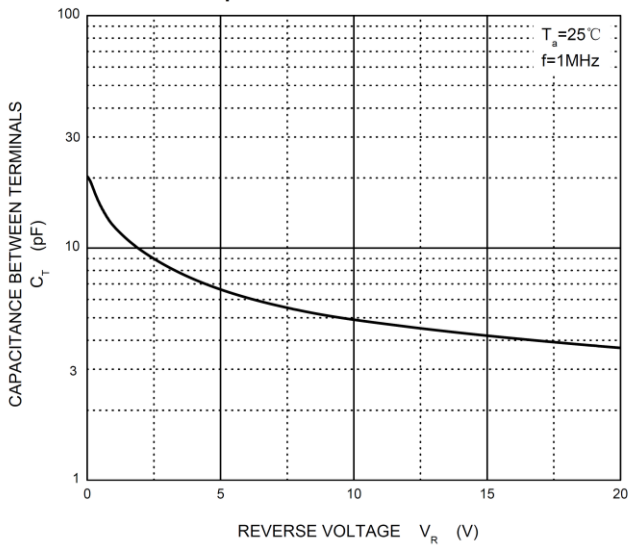
Forward Characteristics



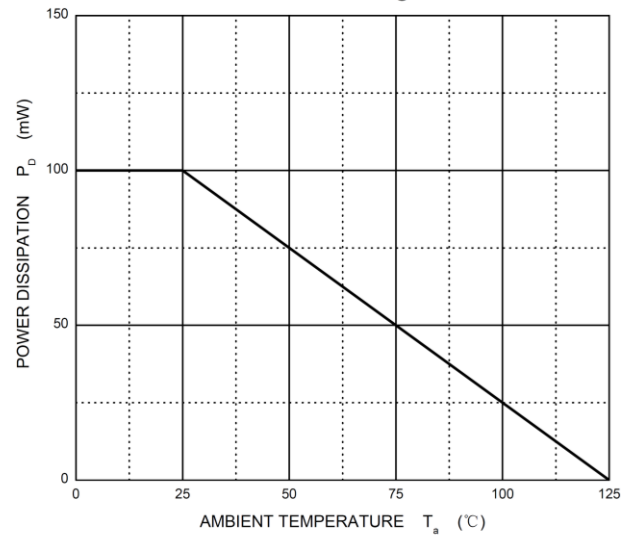
Reverse Characteristics

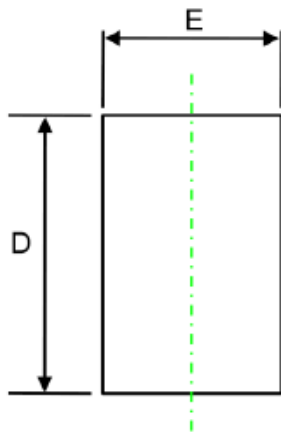
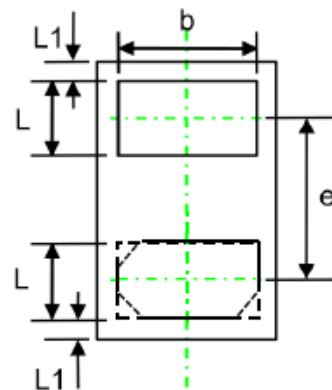
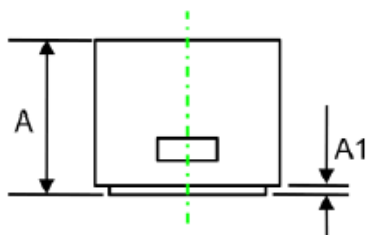


Capacitance Characteristics



Power Derating Curve



**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