



SSCS520S40N1

Schottky Barrier Diode

● Features

- ◇ Small surface mounting type
- ◇ Low reverse current and low forward voltage
- ◇ High reliability

● PIN configuration



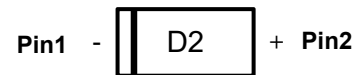
DFN1006-2L (Bottom View)



Circuit Diagram

● Applications

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



Marking (Top View)

● Absolute maximum rating (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	40	V
Reverse Voltage (DC)	V _R		
Average Rectified Forward Current	I _O	200	mA
Non-Repetitive Peak Forward Surge Current@ t=8.3ms	I _{FSM}	1	A
Operating Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-40 ~ +150	°C

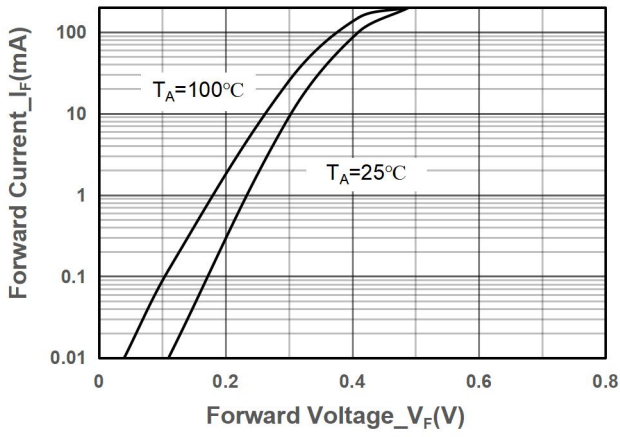
● Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V _R	I _R = 100μA	40			V
Forward Voltage	V _F	I _F = 100mA		0.42	0.48	V
		I _F = 200mA		0.50	0.59	
Reverse Current	I _R	V _R = 25V			1	μA
		V _R = 30V			2	

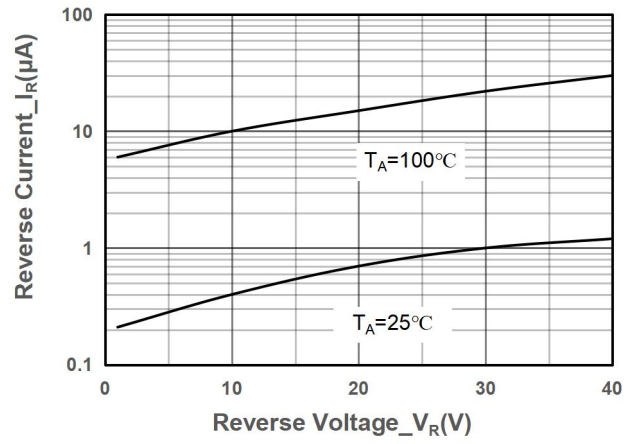


SSCS520S40N1

- Typical Performance Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)



Forward Voltage vs. Forward Current



Reverse Voltage vs. Reverse Current



● Package Information

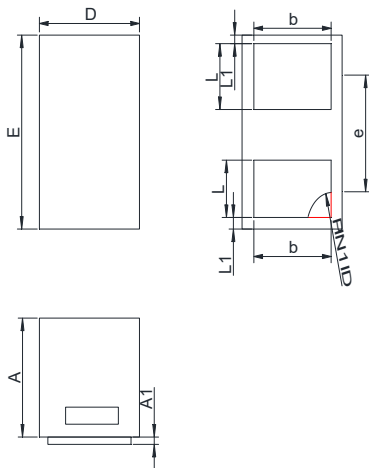
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCS520S40N1	DFN1006-2L	D2	10000	7 Inch

Mechanical Data

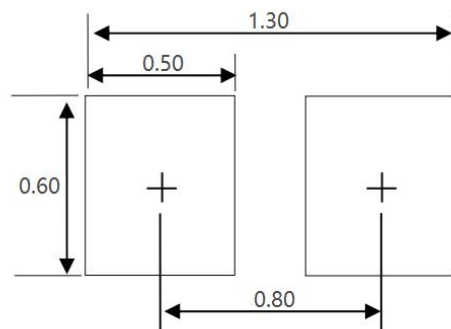
Case: DFN1006-2L

Case Material: Molded Plastic. UL Flammability



DIM	Millimeters	
	Min	Max
A	0.45	0.55
A1	0.00	0.05
D	0.55	0.65
E	0.95	1.05
b	0.45	0.60
e	0.65TYP	
L	0.2	0.3
L1	0.05REF	

Recommended Pad outline



Unit:mm



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