



## SSCS520S40N1

### Schottky Barrier Diode

#### ● Features

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

#### ● PIN configuration



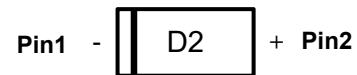
**DFN1006-2L (Bottom View)**



**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 ( $T_A=25^{\circ}\text{C}$ 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	$^{\circ}\text{C}$
Storage Temperature	$T_{STG}$	-40 ~ +150	$^{\circ}\text{C}$

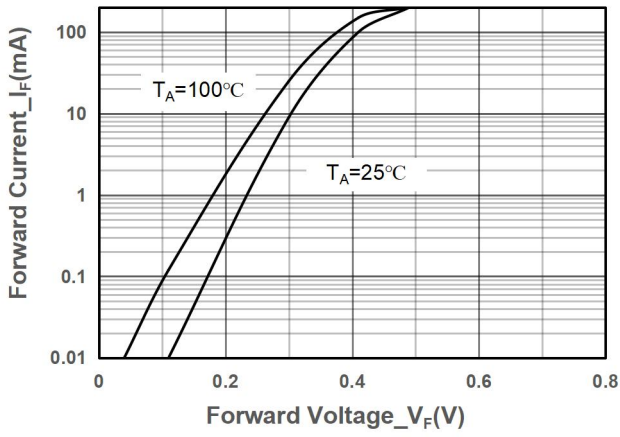
#### ● Electrical Characteristics ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	$V_R$	$I_R = 100\mu\text{A}$	40			V
Forward Voltage	$V_F$	$I_F = 100\text{mA}$		0.42	0.48	V
		$I_F = 200\text{mA}$		0.50	0.59	
Reverse Current	$I_R$	$V_R = 25\text{V}$			1	$\mu\text{A}$
		$V_R = 30\text{V}$			2	

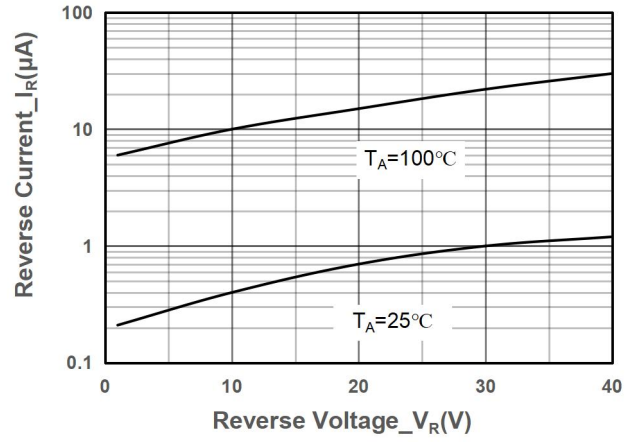


# SSCS520S40N1

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



Forward Voltage vs. Forward Current



Reverse Voltage vs. Reverse Current



## ● Package Information

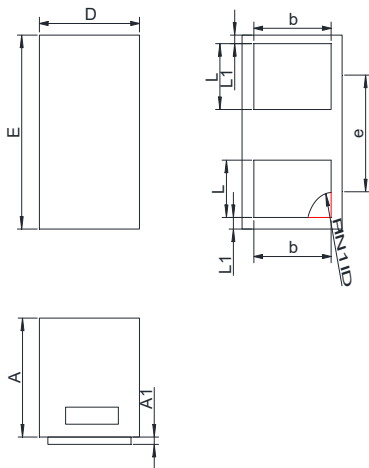
### Ordering Information

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

### Mechanical Data

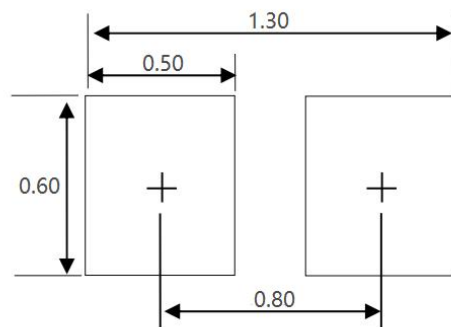
Case: DFN1006-2L

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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