



SSC1N4448N1

Fast Switching Diode

● Features

- ✧ Fast Switching Speed
- ✧ Ultra-Small Surface Mount Package
- ✧ Low Reverse Leakage Current
- ✧ Ideal for Battery Powered Portable Applications
- ✧ RoHS Compliant/Green EMC

● PIN configuration



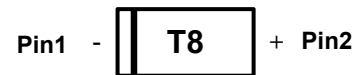
DFN1006-2L(Bottom View)



Circuit Diagram

● Applications

- ✧ High speed switching for detection
- ✧ Battery Powered Portable
- ✧ Mobile phone, Note book PC



Marking(Top View)

● Absolute maximum rating @T_A=25°C

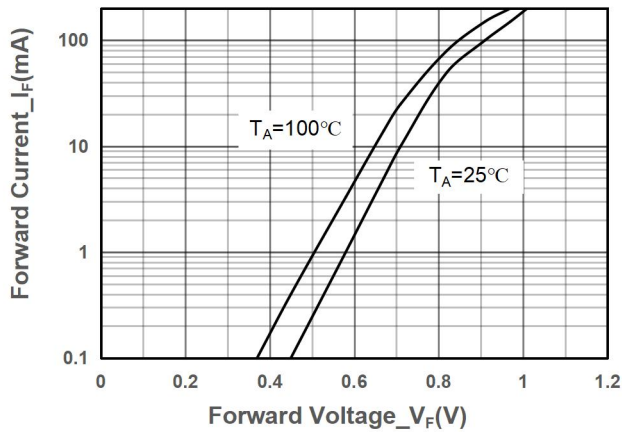
Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Repetitive Peak Reverse Voltage	V _{RRM}	80	V
Working Peak Reverse Voltage	V _{RWM}		
Reverse Voltage(DC)	V _R		
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Forward Current	I _O	150	mA
Non-Repetitive Peak Forward Surge Current@ t=8.3ms	I _{FSM}	1	A
Power Dissipation	P _D	150	mW
Operating Temperature	T _J	-55 ~ +150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C



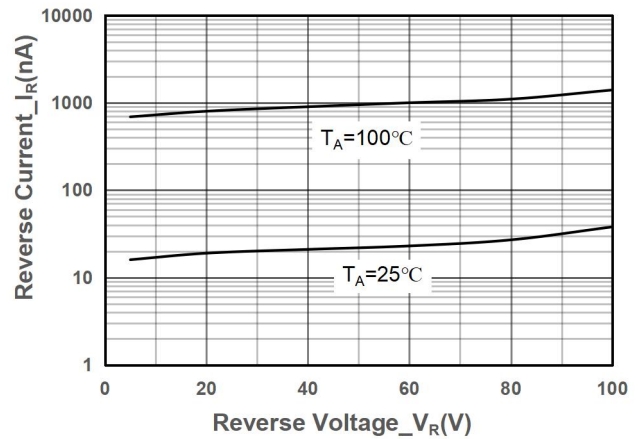
● Electrical Characteristics @T_A=25°C

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V _R	I _R = 100μA	80			V
Forward Voltage	V _F	I _F = 5mA			0.7	V
		I _F = 10mA			0.8	
		I _F = 100mA			1.0	
		I _F = 150mA			1.2	
Reverse Current	I _R	V _R = 20V			25	nA
		V _R = 80V			1	μA
Total Capacitance	C _T	V _R = 0, f = 1MHz			3	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, I _{rr} =0.1×I _R			4	ns

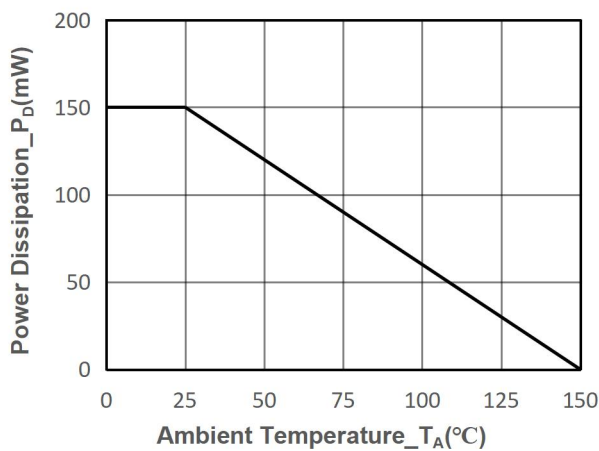
● Typical Performance Characteristics



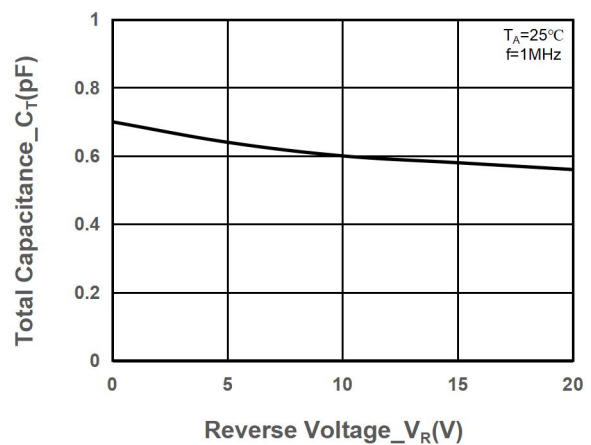
Forward Voltage vs. Forward Current



Reverse Voltage vs. Reverse Current



Power Derating vs. Ambient Temperature



Total Capacitance vs. Reverse Voltage



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● Package Information

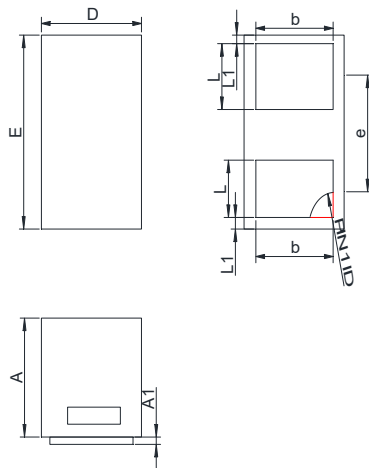
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSC1N4448N1	DFN1006-2L	T8	10000	7 Inch

Mechanical Data

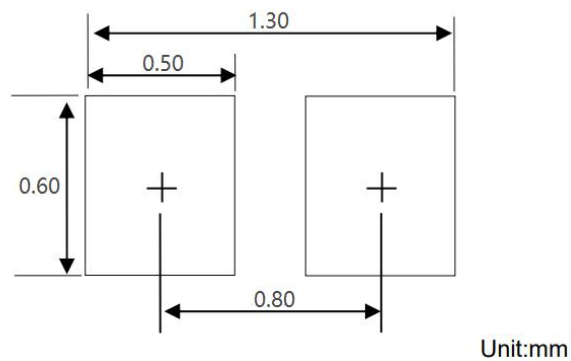
Case: DFN1006-2L

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





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