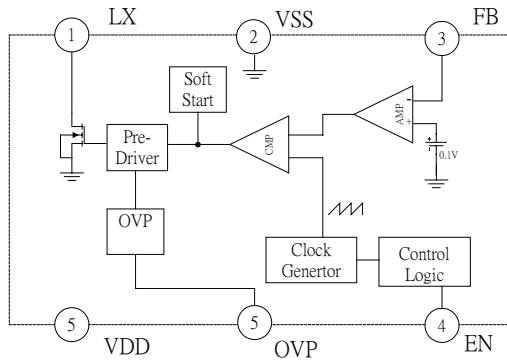
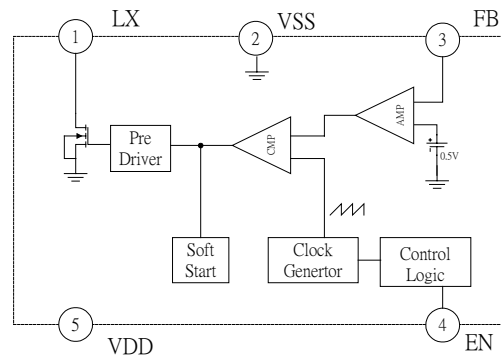


## Block Diagram



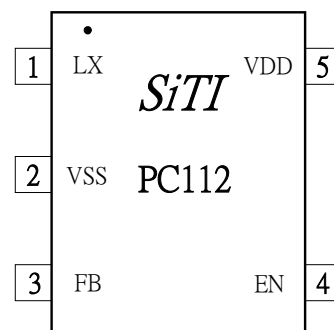
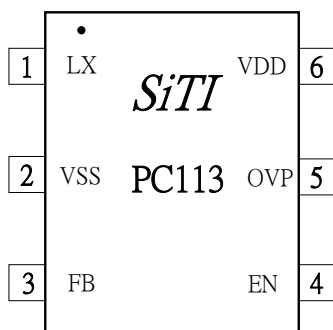
PC113



PC112

## Pin Descriptions

Pin No		PIN NAME	Descriptions
PC113	PC112		
1	1	LX	Connect inductor to battery
2	2	VSS	Ground pin
3	3	FB	Feedback pin
4	4	EN	Enable pin
5		OVP	Over voltage protection
6	5	VDD	Input voltage supply pin



TopView



## Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Supply Voltage	VDD	5.5	V
LX Voltage	V <sub>LX</sub>	24	V
EN Voltage	V <sub>EN</sub>	5.5	V
Power Dissipation	P <sub>d</sub>	2.5	mW
Storage Temperature	T <sub>stg</sub>	-65~140	°C
Operating Temperature	T <sub>opr</sub>	-40~120	°C
Junction Temperature	T <sub>J</sub>	160	°C

## Electrical characteristics, VDD=3.6V, T<sub>a</sub>= 25 °C . (unless otherwise specified)

PARAMETER	SYMBOL	CONDITION	MIN	TYP	MAX	Unit
Operating Input Voltage	VDD		2.8	3.6	5	V
FB PIN Voltage	V <sub>FB</sub>		85	95	105	mV
FB Vol. Temp. Coefficient	T <sub>FB</sub>	I <sub>LED</sub> = 20mA		+92		μV/°C
Switch-on Resistance	R <sub>SW</sub>			1.5		Ω
Switch Max On-time	T <sub>ON</sub>		1.4	1.5	1.6	μS
Maximum Duty Cycle	D <sub>MAX</sub>				80	%
Switching Frequency	F <sub>SW</sub>		450	500	550	KHz
Efficiency	η			85		%
Supply Current	I <sub>DD</sub>	V <sub>EN</sub> =High		1		mA
	I <sub>DDQ</sub>	V <sub>EN</sub> =Low		0.1		μA
Shutdown Input Current	I <sub>EN</sub>	V <sub>EN</sub> =High		0.2		mA
		V <sub>EN</sub> =Low		10		nA
*Over voltage protection	V <sub>P</sub>			23		V

\*Note1 : Only PC113 build this function