

Features

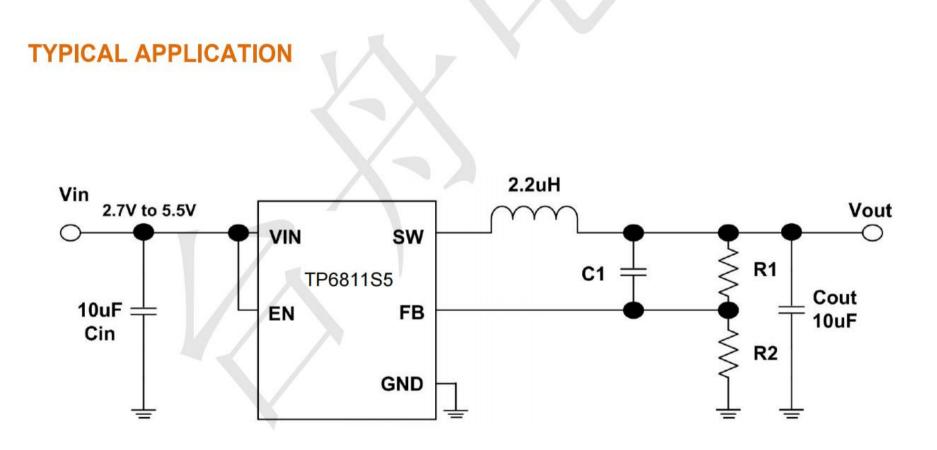
- ◆ Up to 1A Max Output Current
- ◆ 2.7V to 5.5V Input Voltage Range
- ◆ Fixed 1.5MHz Switching Frequency
- ◆ Light Load Operation
- ◆ 100% Duty Operation
- ◆ Internal Compensation
- ♦ Available in SOT23-5
- ◆ RoHS Compliant and Halogen Free

www.sot23.com.tw Applications

- ◆USB ports/Hubs
- ◆Hot Swaps
- ◆Cell phones
- ◆Tablet PC
- ◆Set Top Boxes

General Description

TP6811S5 is a high-efficiency DC to DC step down switching regulator, capable of delivering up to 1A output current. The **TP6811S5** operates in a wide range input voltage from 2.7V to 5.5V making the IC ideal for low voltage power conversions. Running at a fixed frequency of 1.5MHz allows the use of small inductance value and low DCR inductors, thereby achieving higher efficiency.



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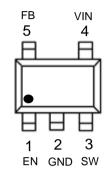
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PIN CONFIGURATION



SOT23-5

Pin Num	Pin Name	Description		
1	EN	Turns on/turns off control input		
2	GND	Power ground pin		
3	SW	Inductor pin. Connect this pin to the switching node of inductor		
4	VIN	Power input pin		
5	FB	Output feefback pin		

Absolute Maximum Rating (T =25°C unless otherwise noted)

Parameter	Value			
Max Input Voltage	6V			

Max Voltage All Pins	6V		
Max Operating Junction Temperature(Tj)	125 ℃		
Ambient Temperature(Ta)	-40° C ~85° C		
Maximum Power Dissipation SOT23-5	400mW		
Storage Temperature(Ts)	-40 °C ~50 °C		
Lead Temperature & Time	260℃, 10S		





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Electrical Characteristics

(VIN=5V, $T_A = 25^{\circ}CT$ unless otherwise specified)

Parameters	Condition	Min	Тур	Max	Units
Input Voltage		2.7		5.5	V
UVLO Threshold			2.5		V
UVLO Hysteresis			0.15		V
Quiescent Current	VFB =0.7V		40		μA
Shutdown Supply Current	VEN=0V			1	μA
Reference Voltage	VIN=2.7 to 5.5V	0.591	0.6	0.609	V
Reference Current			0.01		μA
Maximum Duty		100			%
Switching Frequency	_		1.5		MHz
Short Switching Frequency			380		KHz
Internal Soft-Start Time			1		ms
High Side MOSFET On-Resistance			150		mΩ
Low Side MOSFET On-Resistance			130		mΩ
High Side MOSFET Current Limit			2.4		A
High Side MOSFET Leakage Current	VIN=5V, VFB=0.7V			10	μA
EN Pin Pull-Low Resistance	X		950		KΩ
EN Pin Input Low Voltage				0.4	V
EN Pin Input High Voltage		1.5			V
Power Good Rising			93		%
Power Good Falling			88		%
Output Discharge Switch On Resistance	V _{EN} =0V		60		Ω
Thermal Shutdown Temperature			160		°C

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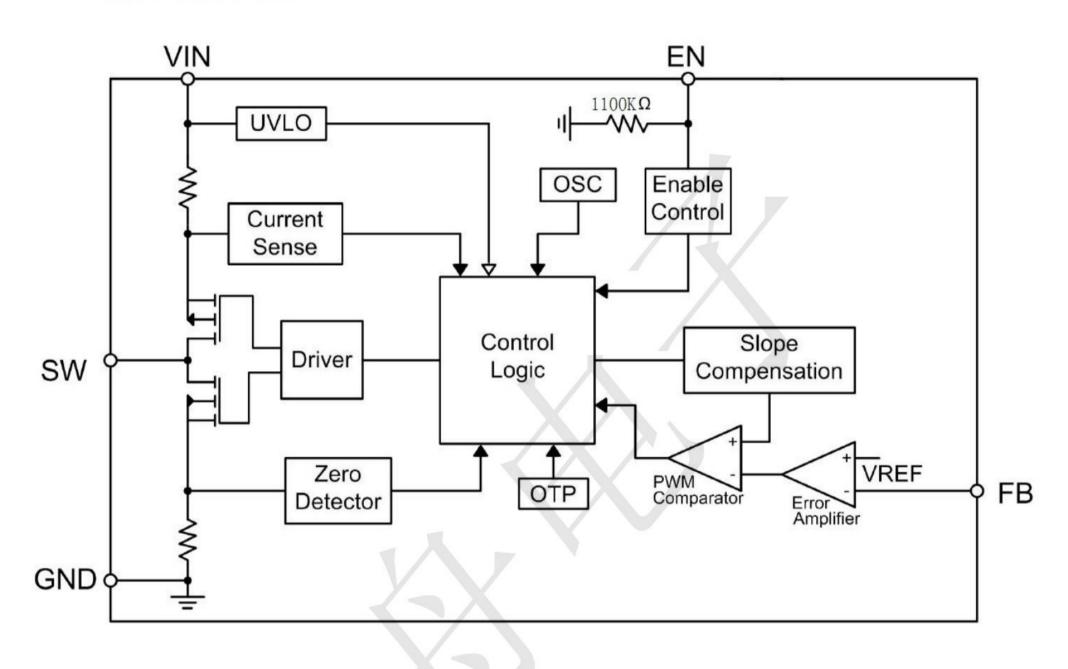
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BLOCK DIAGRAM



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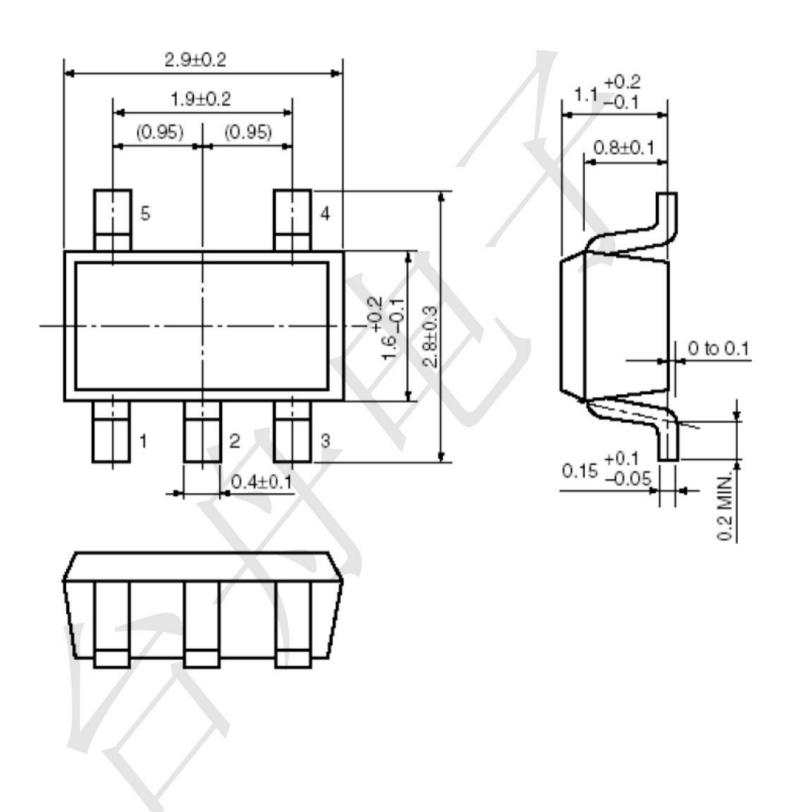
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Package informantion SOT23-5





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