



Step-down Synchronous Converter (DC-DC)

1 Main features:

- ◆ Very low static current :1uA
- ◆ The conversion efficiency can reach 96%
- ◆ 1.3A current output
- ◆ 1.5MHz fixed frequency
- ◆ 2.6V-7V input voltage
- ◆ Short circuit protection
- ◆ Internal failure protection
- ◆ Pulse current limit and soft start
- ◆ <1uA off current
- ◆ Package: SOT 23-5

2 Typical application

- ◆ Wearable device
- ◆ Internet of Things
- ◆ Energy harvesting
- ◆ Battery powered device

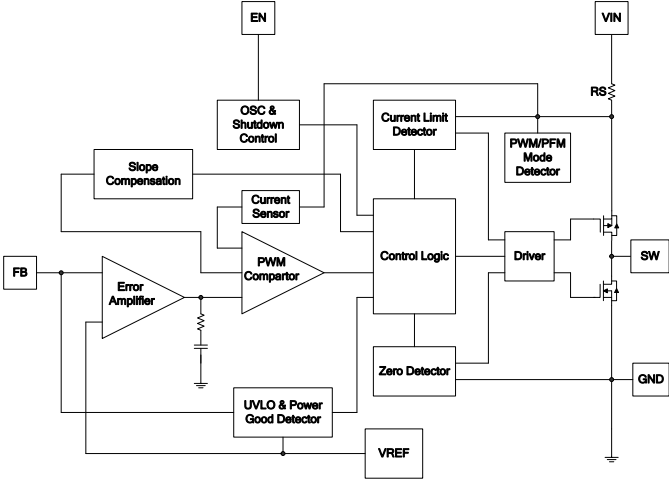
3 Product description

The HL3405AC is a fixed frequency, current mode buck converter. An internal synchronous switch provides high conversion efficiency without the need for Schottky diodes,

5 Compare with similar products

	Input voltage range	Maximum output current	Static current	frequency	Encapsulation form
ETA3425	2.6V~5.5V	0.6A	1uA-2uA	1.5MHz	SOT23-6
HL3405AC	2.6V~7V	1.3A	1uA	1.5MHz	SOT23-6

the output voltage can be adjusted to a minimum of 1.130V, and the HL3405AC has PWM and PFM control mode switching control. The internal structure block diagram of the chip is as follows:



4 Product highlights

- ◆ Very low static current :1uA
- ◆ Built-in compensation circuit
- ◆ With complete overcurrent short circuit protection function
- ◆ <1uA off current