

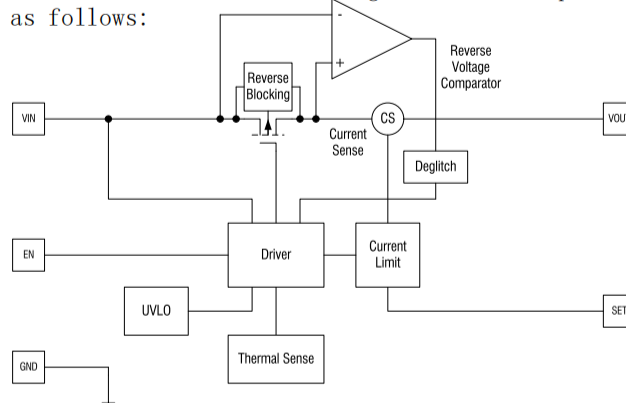


Load switch (DC-DC)

1 Main feature

- ◆ Compatible with USB specification
- ◆ Internal integrated 80mΩ power MOS
- ◆ Low supply current
- ◆ 15uA typical value in on/off state
- ◆ 1uA typical value in off state
- ◆ Wide voltage input 2.4V-5.5V
- ◆ Fast transient response <2uS
- ◆ Reverse current blocking
- ◆ Heat off protection
- ◆ Hot swap application
- ◆ Package: SOT23-5

This switch has a low internal resistance of 80 mΩ to meet the needs of USB drop voltage. The internal structure block diagram of the chip is as follows:



2 Typical application

- ◆ USB peripheral
- ◆ USB bus and relay

3 Product description

The HS9700 is a low-cost, low-voltage, single P-MOS load switch for self-powered and bus-powered USB applications. Switching operating voltage range 2.4V-5.5V, ideal for 3V and 5V systems.

4 Product Highlights

- ◆ Compatible with USB specification
- ◆ Low turn-off current
- ◆ It has complete overtemperature protection function

5 Compare with similar products

Part No.	Input voltage range	Maximum output current	Static current	Turn-off current	Switching tube impedance	Encapsulation form
RT9701	2.2V~6V	1.1A	23uA	0.1uA	100mΩ	SOT23-5
HS9700	2.4V~5.5V	2A	15uA	0.1uA	80mΩ	SOT23-5
SY6280	2.4V~5.5V	2A	25uA	0.1uA	80mΩ	SOT23-5