

单按键触摸检测开关 IC

PRELIMINARY DATASHEET

器件概述

FH8323 是一款单按键触摸及接近感应开关，其用途是替代传统的机械型开关。该 IC 采用 CMOS 工艺制造，结构简单，性能稳定。该 IC 通过引脚可配置成多种模式，可广泛应用于灯光控制、玩具、家用电器等产品。FH8323 采用超小型 DFN2*2-6L 封装结构，较传统封装更易进行电路设计。

电气特性

- 工作电压：2.4V~5.5V
- 低功耗模式仅 1.5uA(在 3V 且无负载)
- 电源稳定后，0.5S 内完成上电初始化
- 外部配置引脚设置为多种模式
- 内置稳压电路
- 灵敏度自动校准功能，工作环境发生变化可以快速自动适应
- 最长输出约 16S
- 高可靠性，芯片内置去抖动电路，可有效防止外部噪声干扰而导致的误动作
- 可用于玻璃、陶瓷、塑料等介质表面
- 封装形式：DFN2*2-6L

应用领域

- 蓝牙耳机
- 指纹锁
- 智能穿戴
- 儿童玩具



典型应用电路

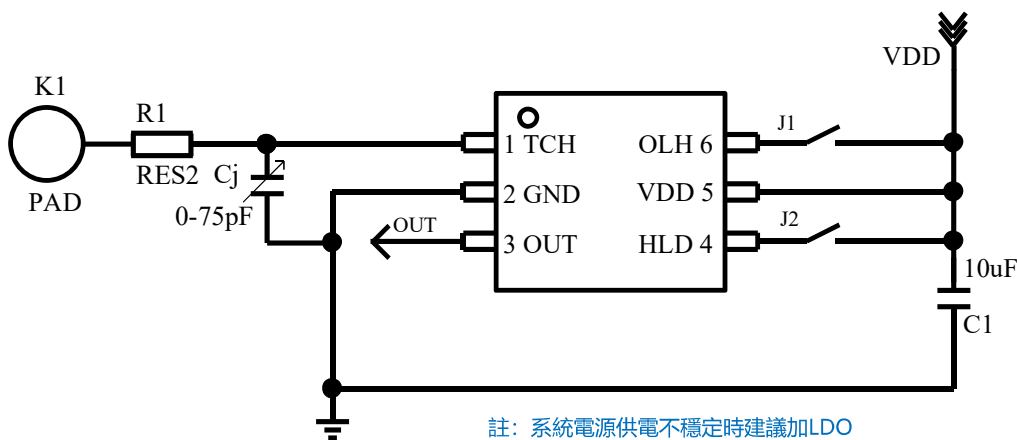
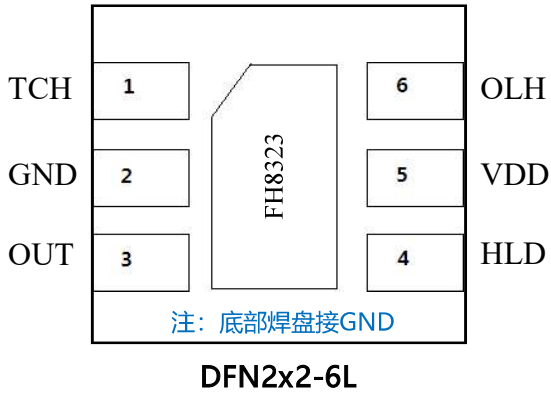


圖2. FH8323 典型應用電路圖

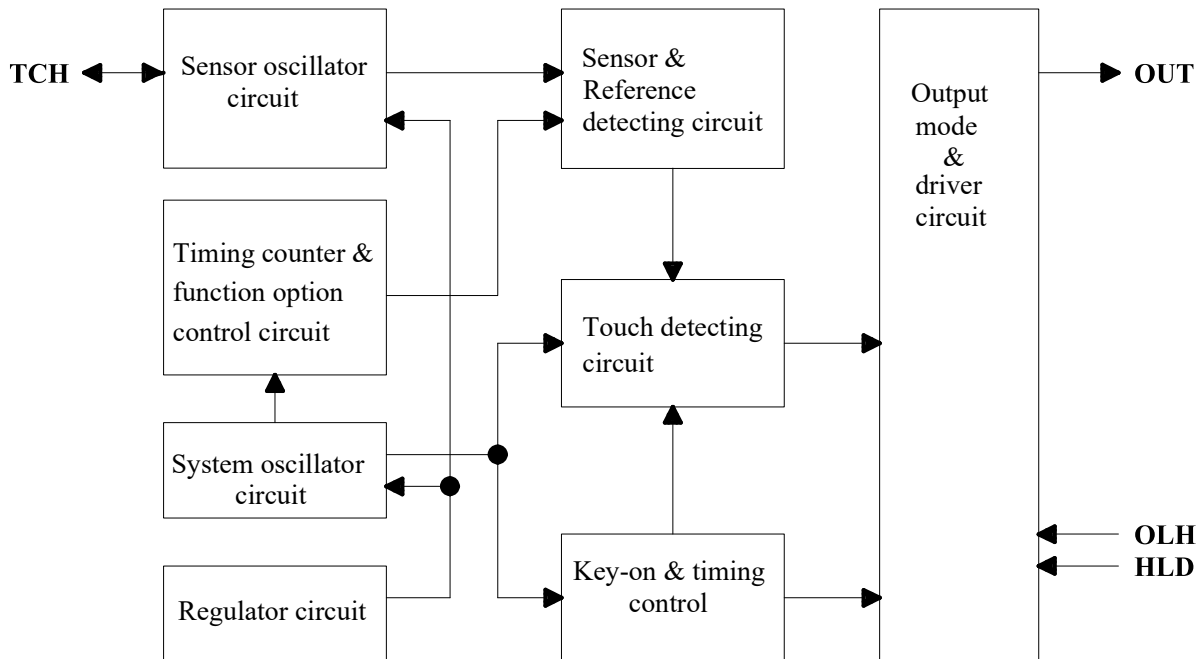
引脚定义



引脚功能

NO	名称	描述
1	TCH	TOUCH PAD 输入
2	GND	负极电源
3	OUT	CMOS 输出
4	HLD	保持/同步模式选择
5	VDD	正极电源
6	OLH	输出高/低有效模式选择

功能模块图



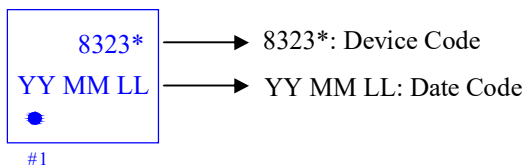
ORDERING INFORMATION

Part Number	Voltage Range	Features	Operating Temperature	Package Type	Top Mark	SPQ
FH8323D6	2.4V ~ 5.5V	<ul style="list-style-type: none"> • #1 Touch Key • Built-in touch sensor • VREG: 2.3V • IDD: 1.5uA(Low Power) 5.1uA(Fast Power) 	0°C to 70°C	DFN2*2-6L	8323* <u>YY MM LL</u>	3000PCS/Reel

Note:

- **FH8323** devices are Pb-free and RoHs compliant.
- The surface prints of our semiconductor devices are subject to change during the production process and do not involve changes in electrical parameters, and we will not separately state the notice.
- If you have any other custom purchase needs, please contact our sales department.
- ForDevices reserves the right to amend and legally interpret the electrical parameters of this chip device. (<http://www.fordevices.com>)

Device Name: DFN2x2-6L



ESD SENSITIVITY CAUTION

ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.



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Note:

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▲ Update by Jun.2019