

1.0MHz, 调光 LED, 内置 60.0V 功率 MOSFET 升压型 LED 恒流驱动器

■ 器件概述

FH2700 是一款内置 60.0V 功率 NMOS 高效率、高精度的升压型大功率 LED 恒流驱动芯片。

FH2700 采用固定关断时间的控制方式, 关断时间可通过外部电容进行调节, 工作频率可根据用户要求而改变。

FH2700 通过调节外置的电流采样电阻, 能控制高亮度 LED 灯的驱动电流, 使 LED 灯亮度达到预期恒定亮度。在 EN 端加 PWM 信号, 还可以进行 LED 灯调光。

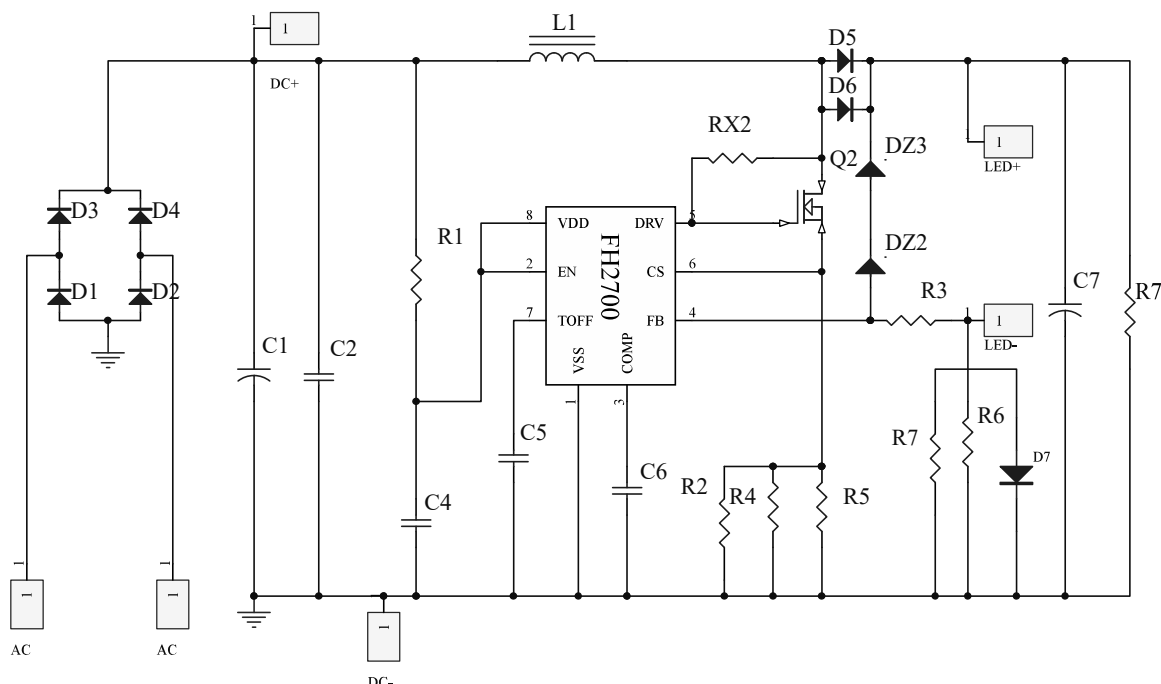
FH2700 内部集成了 VDD 稳压管, 软启动以及过温保护电路, 减少外围元件并提高系统可靠性。

FH2700 采用 ESOP-8L 封装。散热片内置接 SW 脚。

■ 应用领域

- LED 灯杯
- 平板显示 LED 背光
- 电池供电的 LED 灯串
- 大功率 LED 照明
- 低压 LED 照明
(景观照明、台灯及室内照明、MR16 射灯)

■ 典型应用



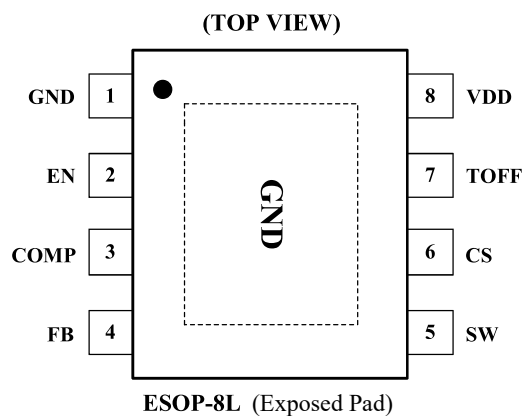
■ 主要特点

- 宽输入电压范围: 3.6V~60.0V
- 内置 60V 功率 MOSFET
- 高效率: 可高达 95%
- 最大工作频率: 1.0MHz
- FB 电流采样电压: 250mV
- 芯片供电欠压保护: 3.2V
- 关断时间可调
- 智能过温保护(OTP)
- 软启动
- 内置 VDD 稳压管



ESOP-8L

■ 引脚名称



■ 引脚定义

管脚号	管脚名	功能描述
1	GND	接地
2	EN	芯片使能，高电平有效；可做 PWM 调光脚。
3	COMP	频率补偿脚
4	FB	输出电流检测反馈脚
5	SW	功率 MOS 管漏极
6	CS	输入限流检测脚
7	TOFF	关断时间设置
8	VDD	芯片电源

■ 订购信息

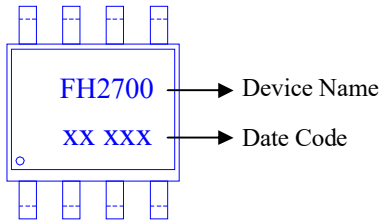
部品编码	描述	工作温度	封装类型	器件印字	标准包装
FH2700S8	输出功率: ≤20W 使能调光 高恒流精度: ±3%	-20~85°C	ESOP-8L	FH2700 * * * *	2500PCS/Reel

Note:

- FH2700 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.



Device Name: ESOP-8L



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.



Note:

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