产品简介

1EDN7550和1EDN8550 EiceDRIVER™

单通道低压侧栅极驱动器系列采用真正的差分输入，防止错误地触发功率MOSFET

概述:

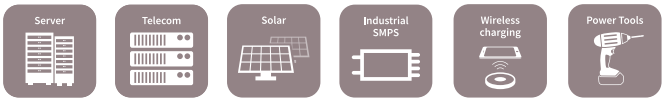
› 传统低压侧栅极驱动器IC的输入信号电平参照的是栅极驱动器IC的接地电位。如果在应用中，栅极驱动器IC的接地电位发生大幅变化，可能导致错误地触发栅极驱动器IC。

› 1EDN7550/1EDN8550栅极驱动器IC具有真正的差分输入。它们的控制信号输入在很大程度上独立于接地电位。只有输入触点之间的电压差才与之相关。
这样可以防止错误地触发功率MOSFET。

应用领域

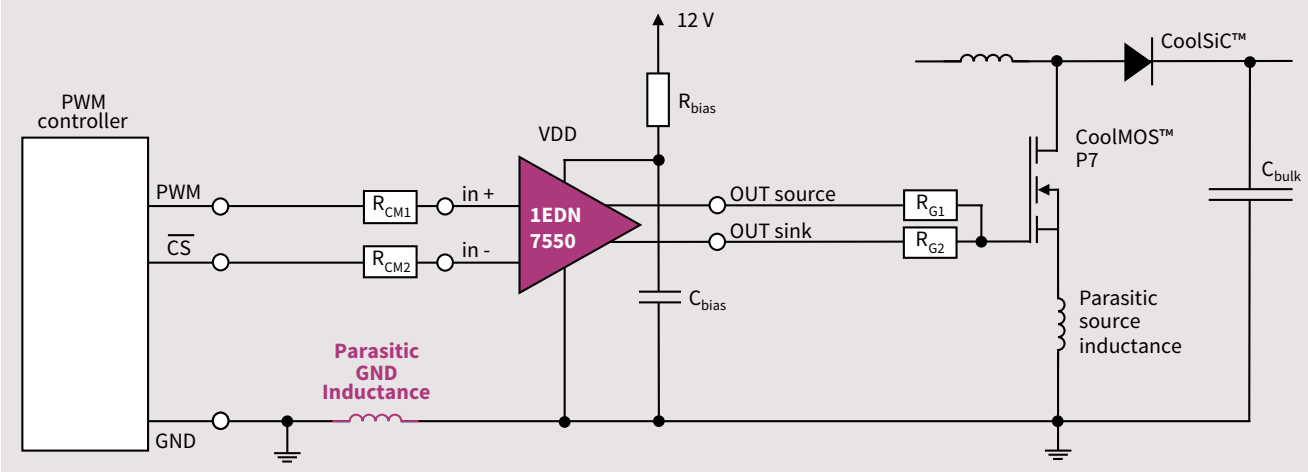
› 服务器
› 电信
› DC-DC转换器
› 电信模块
› 电动工具
› 工业SMPS
› 无线充电
› 太阳能微型逆变器

产品特性	产品优势	应用优势
› 真正的差分输入	› 独立于栅极驱动器GND控制输入	› 能够耐受功率MOSFET开关造成的接地偏移
› 4 A源电流 › 8 A灌电流 › 分开的充放电输出 › 低电阻输出级	› 快速的米勒平台转换 › 快速关断 › 无二极管电压降 → 关断时的栅极电压近乎为零 › 栅极驱动器IC低功耗	› 低MOSFET开关损耗 › 能够耐受错误的MOSFET触发 › 最高的有效MOSFET驱动功率
› 29 ns输入最小脉冲宽度 › 7 ns传播延迟精度	› 高达15 MHz的开关速度 › 精确	› 能效增益
› 5 A输出反向电流稳健性 › 4 V和8 V UVLO版本	› 无需肖特基钳位二极管 › 快速可靠的MOSFET关断	› 提高功率密度，节省物料成本 › 异常运行时的即时MOSFET保护
› SOT-23封装，6引脚	› 体积小	› 高功率密度

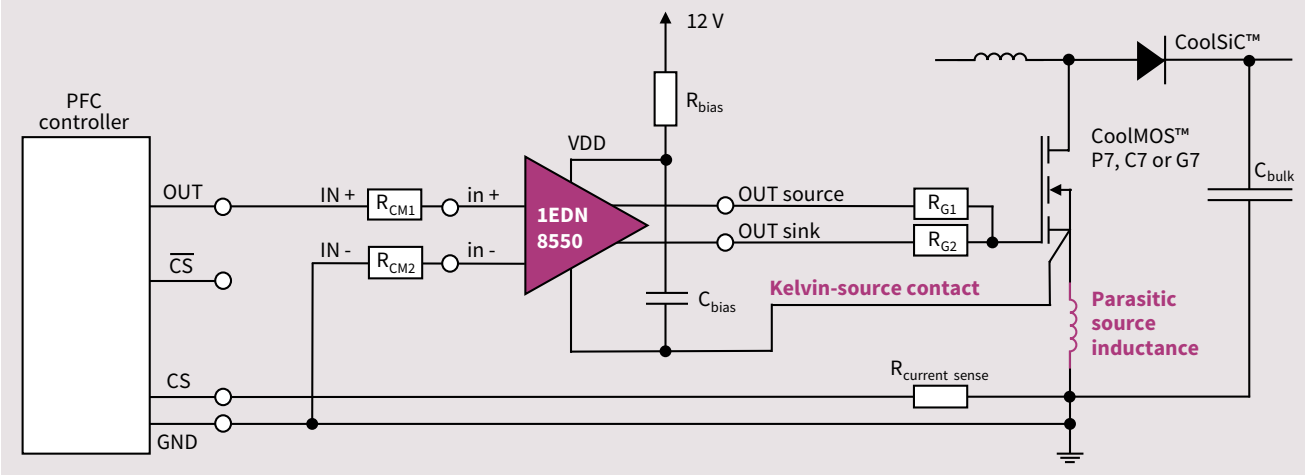


www.infineon.com/1EDN-TDI

1EDN7550驱动单层PCB上的CoolMOS™ SJ MOSFET



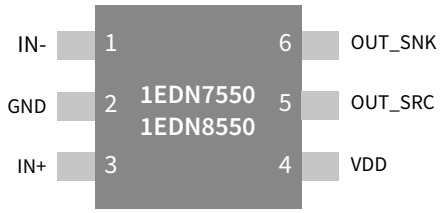
1EDN8550驱动升压PFC中的开尔文源CoolMOS™ SJ MOSFET



产品系列

类型	接地转换稳健性		UVLO 欠压闭锁	封装
	动态	静态		
1EDN7550B	+/- 150 V	+/- 70 V	4 V	6-pin SOT-23
1EDN8550B	+/- 150 V	+/- 70 V	8 V	6-pin SOT-23

引脚配置



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