

Key Products & Applications

USB-PD Type-C SMPS System Solutions

USB-PD Type-C 智能电源平台

主要产品及特色



TEA1936 DCM Flyback Controller

- ▶ Flyback QR Controller with true valley switching
- ▶ Adaptive dual-supply for highest efficiency
- ▶ Active Xcap discharge integrated
- ▶ High efficiency at low loads
- ▶ No load stand by power dissipation < 30mW
- ▶ Low ripple $\pm 1\%$ at any output voltage
- ▶ Switching frequency up to 140kHz (QR with true valley switching)

TEA 1936 断续模式(DCM)反激控制器

反激准谐振控制器, 真正的谷底开关

- ▶ 双模自适应供电以实现最高效率
- ▶ 内部集成有源X电容放电功能
- ▶ 空载功耗<30mW
- ▶ 任何输出电压情况下纹波< +/-%
- ▶ 高达140kHz的开关频率(准谐振,真正的谷底开关)

TEA1993 Secondary Controller and S...

- ▶ Adaptive gate driver for maximum efficiency
- ▶ Supply current in "no load" operation <250 μ A
- ▶ Self-supporting for high-side rectification without the use of an auxiliary winding
- ▶ Operates with standard logic level SR MOSFETs
- ▶ Optimized for fast charger applications, like USB BC 1.2, USB-PD, QC2.0/3.0 and any other proprietary protocol application

TEA 1993 次级同步整流控制器

- ▶ 门极驱动自适应,以实现效率最大化
- ▶ '空载'时供电电流<250uA
- ▶ 无须辅助绕组即可以实现高压侧整流
- ▶ 可以适配标准的逻辑电平同步整流MOSFET
- ▶ 特别优化以适合快充应用,如USB BC1.2, USB-PD, QC2.0/3.0以及其他应用协议

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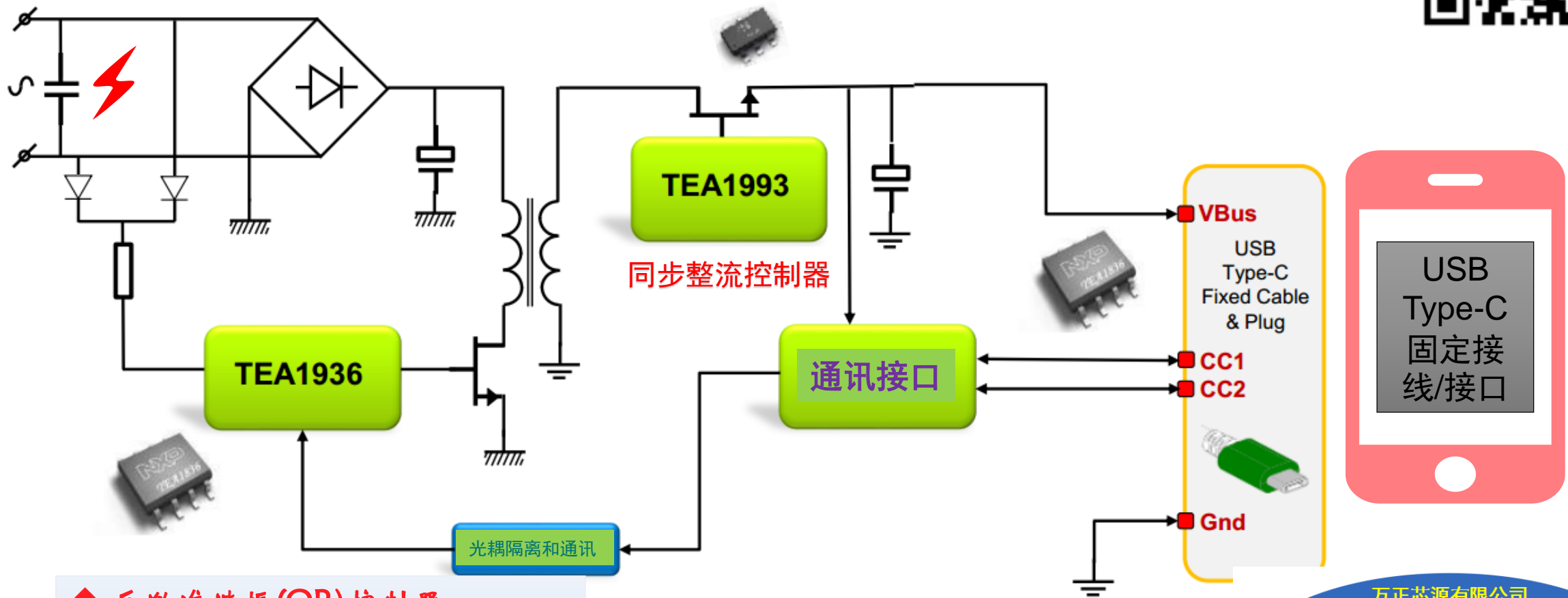
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USB-PD Block Diagram Smart Power Platform (Captive Cable)

USB-PD 系统构架 智能电源平台 (针对固定式接线接口)



- ◆ 反激准谐振(QR)控制器
- ◆ 支持输出电压调节配置
- ◆ 针对低输出电压而进行优化设计

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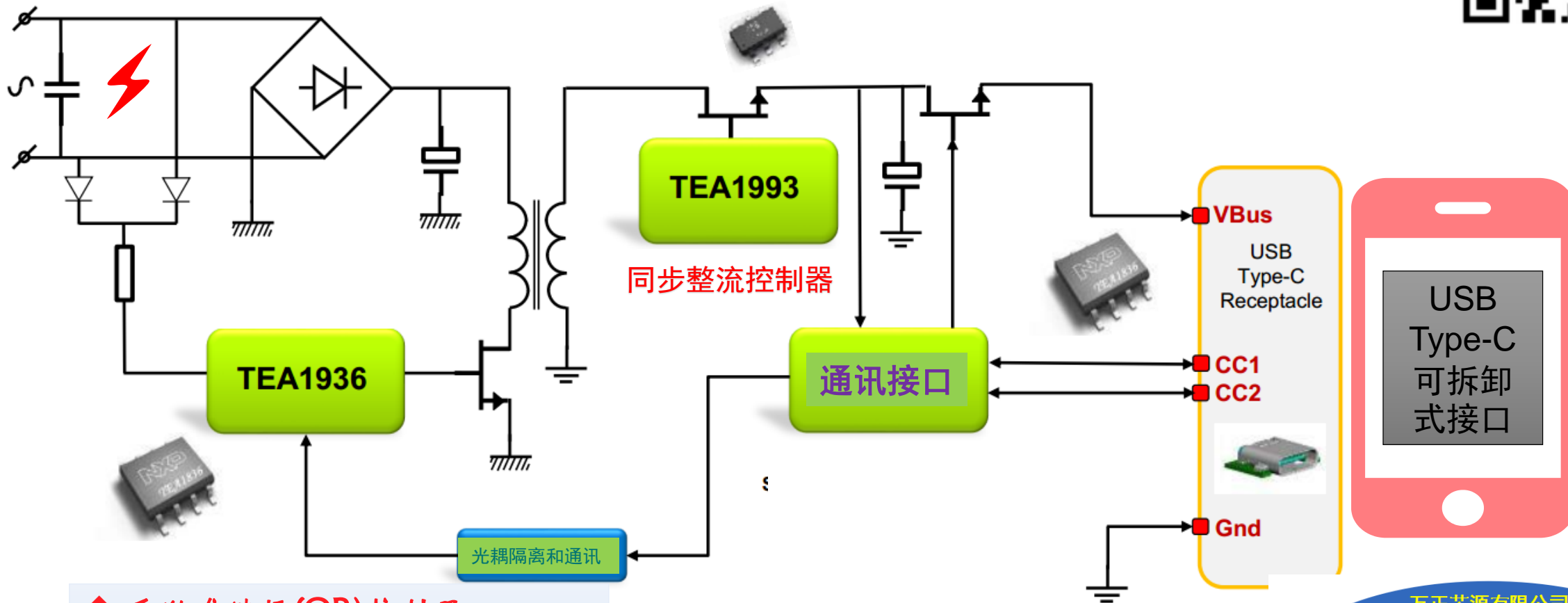
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USB-PD Block Diagram

Smart Power Platform (Receptacle)

USB-PD 系统构架

智能电源平台 (针对可拆卸式接口)



- ◆ 反激准谐振(QR)控制器
- ◆ 支持输出电压调节配置
- ◆ 针对低输出电压而进行优化设计

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