TO247-NL Package Type

1、TO247-NL 封装，确保安装兼容性并可轻松替换现有系统设计，为更经济高效、紧凑、易设计且可靠的系统提供领先的解决方案。该器件在硬开关操作和软开关拓扑中均能表现出更优异的性能，适用于所有常见的 AC-DC、DC-DC 和 DC-AC 组合拓扑。

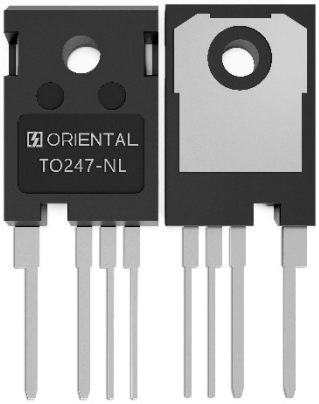
1、The TO247-NL package ensures mounting compatibility and allows for easy replacement of existing system designs, delivering a leading solution for more cost-effective, compact, easy-to-design and reliable systems. This device exhibits superior performance in both hard-switching operations and soft-switching topologies, and is suitable for all common AC-DC, DC-DC and DC-AC combined topologies.

2、产品特点：

- 增强的开关性能与品质因数 FOM
- 丰富的产品组合
- 优化的.XT 扩散焊技术
- 抗寄生导通能力
- 2μs 短路耐受能力
- 紧凑的栅极-源极阈值电压（$V_{GS(th)}$）分布

2. Product Features

- Enhanced switching performance and figure of merit (FOM)
- A comprehensive product portfolio
- Optimized .XT diffusion welding technology
- Anti-parasitic turn-on capability
- 2μs short-circuit withstand capability
- Tight gate-source threshold voltage (VGS(th)) distribution

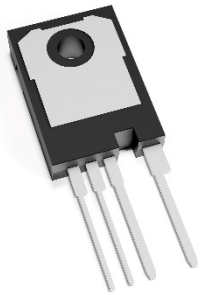


3、应用价值：

- 更优能效表现
- 冷却系统优化
- 更高功率密度
- 全新鲁棒特性
- 高可靠性设计
- 易于并联

3. Application Value

- Superior energy efficiency performance
- Cooling system optimization
- Higher power density
- New robust characteristics
- High-reliability design
- Easy paralleling capability



4、竞争优势：

- 开关损耗降低 25%
- 总功率损耗减少 10%
- MOSFET 温度降低 11%
- 抗米勒效应可靠性
- 并联表现更优

4. Competitive Advantages

- 25% reduction in switching losses
- 10% reduction in total power losses
- 11% decrease in MOSFET temperature
- Reliable immunity to the Miller effect
- Superior paralleling performance

5、应用领域：

- 光伏
- 储能
- 不间断电源 UPS
- 电动汽车充电
- 驱动

5. Application Fields

- Photovoltaics (PV)
- Energy storage
- Uninterruptible power supply (UPS)
- Electric vehicle charging
- Motor drives