

产品简介

OptiMOS™ 5 80 V和100 V 用于电信应用的行业领先技术

OptiMOS™ 5 80 V和100 V是英飞凌的最新一代功率MOSFET，专为电信与服务器电源的同步整流而设计。此外，这两种设备还可用于其他行业应用中，例如太阳能、低压马达驱动和适配器。

全新的OptiMOS™ 5 80 V和100 V MOSFET有七种不同的封装，可提供业内最低的 $R_{DS(on)}$ 。对此行业领先FOM最大的贡献之一是SuperSO8封装中电阻值低至2.7 mΩ的低导通电阻，可提供最高水平的功率密度和效率。

OptiMOS™ 5 100 V的 $R_{DS(on)}$ 比其他类似设备低22%。而且，与上一代相比，OptiMOS™ 5 80 V的 $R_{DS(on)}$ 降低高达43%。

主要特性

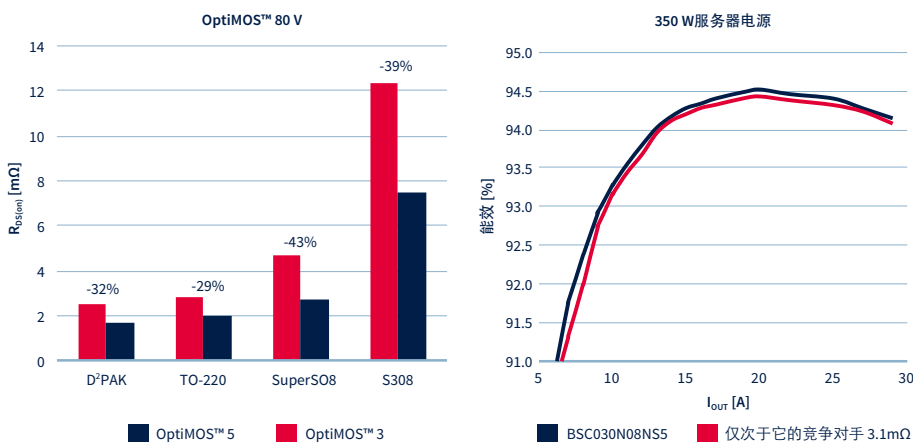
- 针对同步整流进行了优化
- 非常适合高开关频率
- 输出电容降低高达44%
- 与上一代相比， $R_{DS(on)}$ 降低高达43%

主要优点

- 最高的系统效率
- 降低了开关和导通损耗
- 毋需更多并联
- 提高功率密度
- 低电压过冲

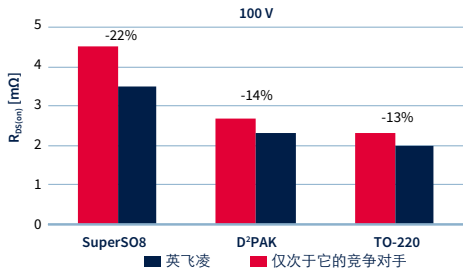
应用

- 电信
- 服务器
- 太阳能
- 低压马达驱动
- 适配器

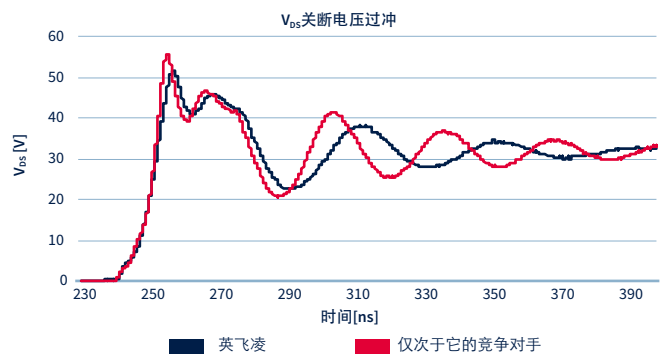
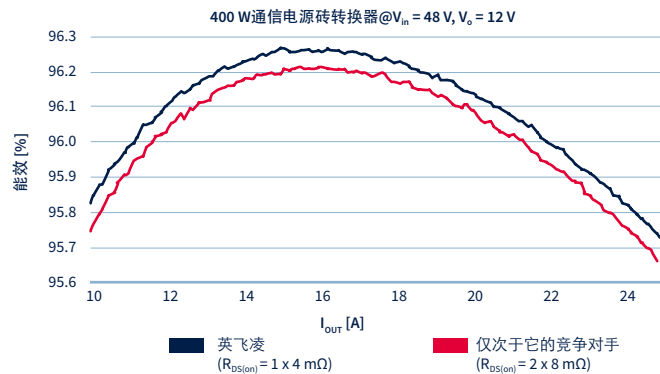


OptiMOS™ 5 80 V和100 V

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在SuperSO8封装中，OptiMOS™ 5 100 V在替换竞争对手的部件时以一敌二，可在整个负载范围内实现更高的效率。这种以一敌二的更换对热行为没有任何不利影响。OptiMOS™ 5 100 V的电压过冲比仅次于它的竞争对手产品低5 V。除了隔离式的DC/DC主要应用外，全新的OptiMOS™ 5 100 V还可用于电信应用模块，包括Or-ing、热插拔和电池保护。



OptiMOS™ 5 80V和100V产品系列

R_DS(on) max@ V_GS = 10 V		SuperSO8	S308	TO-Leadless	TO-220	TO-220 FullPAK	D²PAK	D²PAK 7pin
80 V	1-4 mΩ	BSC026N08NS5		IPT012N08N5	IPP020N08N5		IPB017N08N5	IPB015N08N5
		BSC030N08NS5			IPP023N08N5		IPB020N08N5	
		BSC037N08NS5			IPP027N08N5		IPB024N08N5	
		BSC040N08NS5			IPP034N08N5		IPB031N08N5	
	4-8 mΩ	BSC052N08NS5	BSZ075N08NS5		IPP052N08N5		IPB049N08N5	
		BSC061N08NS5						
8-12 mΩ	BSC117N08NS5	BSZ084N08NS5						
		BSZ110N08NS5						
100 V	1-4 mΩ	BSC035N10NS5		IPT015N10N5	IPP023N10N5		IPB020N10N5	IPB017N10N5
					IPP030N10N5		IPB027N10N5	
	4-8 mΩ	BSC040N10NS5						
		BSC070N10NS5						
8-10 mΩ	BSC098N10NS5	BSZ097N10NS5		IPP083N10N5	IPA083N10N5			

R_DS(on) 在 V_GS = 6 V 时也是特定的

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