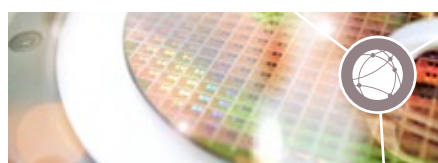


电源系统核心: CoolMOS™ 7 – CoolSiC™ – CoolGaN™

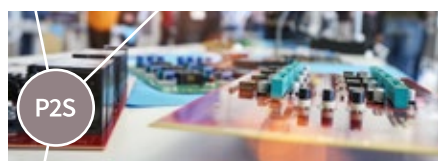
CoolMOS™ 7 是英飞凌推出的最新一代高压超级结MOSFET, 将为能源效率、功率密度和易用性设定新的标准。CoolMOS™ 7在导通、开关和驱动损耗方面具有优异表现。CoolSiC™和CoolGaN™技术着眼未来, 设计出具有极高效率且结构紧凑的系统, 以满足未来对更环保和更佳产品的需求。

使用英飞凌高压转换解决方案降低成本并拓展业务的7大理由!



产品和技术领先

在您的产品中采用最佳的MOSFET, 与具有 20年成功经验和宏伟产品规划的超级结创造者合作



系统思维方法

英飞凌的P2S – 产品到系统思维– 方法, 使设计导入过程更简单, 并增加我们合作伙伴的销售机会



最佳质量和成本

英飞凌公认的高质量减少了售后工作, 提高了客户满意度, 并且价格水平极具竞争力



无与伦比的供应链

凭借在功率半导体行业中的强大生产产能实力, 英飞凌可帮助合作伙伴确保收入并提高客户满意度



出色的支持

英飞凌强大的支持架构可帮助客户缩短上市时间并简化设计导入工作



销售提升

我们提供诸多的实用信息、内容和工具, 使销售更加有效, 并让强劲的市场营销投资带来更多需求



最全面的产品系列

高压MOSFET产品系列的详细分类可满足不断增多的应用需求, 产生更多的销售机会

应用于产品矩阵

应用	CoolMOS™ 7									CoolSiC™	CoolGaN™	Driver ICs
	CFD7 – 600 V	C7 – 650 V	C7 – 600 V	G7 – 650 V	G7 – 600 V	P7 – 600 V	P7 – 700 V	P7 – 800 V	P7 – 950 V	CoolSiC™ diode G6	CoolGaN™ 600 V	EiceDRIVER™
低功率应用												
电视						✓	✓				✓	
充电器						✓	✓	✓	✓		✓	
适配器						✓	✓	✓	✓		✓	
照明						✓	✓	✓	✓		✓	
音频电源						✓	✓	✓			✓	
游戏						✓	✓					
PC电源						✓						
智能电表								✓	✓			
快速增长的高功率应用												
电动汽车充电	✓	✓		✓		✓						✓
LSEV (低速电动汽车) 充电	✓	✓		✓		✓				✓		✓
工业电池充电	✓					✓				✓	✓	✓
高功率应用												
服务器	✓	✓	✓	✓	✓	✓				✓	✓	✓
电信	✓	✓	✓	✓	✓	✓				✓	✓	✓
工业电源	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
太阳能		✓		✓		✓				✓	✓	✓

适用于低功率应用的产品系列(<150 W)

P7 – 600 V 0.18 – 0.6 Ω			P7 – 700 V 0.36 – 2.0 Ω		P7 – 800 V 0.28 – 4.5 Ω		P7 – 950 V 0.45 – 3.7 Ω		CoolGaN™ 0.19 – 0.34 Ω	
PFC	反激	LLC	PFC	反激	PFC	反激	PFC	反激	反激	

适用于高功率应用的产品系列(>150 W)

C7 – 600 V C7 – 650 V G7 – 600 V G7 – 650 V CFD7 – 600 V	C7 – 600 V G7 – 600 V CFD7 – 600 V	CFD7 – 600 V	P6 – 600 V P7 – 600 V	P7 – 600 V CFD7 – 600 V	CFD7 – 600 V	CoolSiC™ 二极管 600 V/650 V	CoolGaN™ 600 V
PFC	LLC	ZVS移相全桥	PFC	LLC	ZVS PS	PFC	PFC
R _{DS(on)} 17 – 190 mΩ							
栅极驱动器IC							
2EDN 1EDN	2EDN 1EDN	2EDN 1EDN	2EDN 1EDN	2EDN 1EDN	2EDN 1EDN	CoolGaN™ 驱动器	

Published by
Infineon Technologies Austria AG
9500 Villach, Austria

© 2018 Infineon Technologies AG.
All Rights Reserved.

Please note!
THIS DOCUMENT IS FOR INFORMATION PURPOSES ONLY AND ANY INFORMATION GIVEN HEREIN SHALL IN NO EVENT BE REGARDED AS A WARRANTY, GUARANTEE OR DESCRIPTION OF ANY FUNCTIONALITY, CONDITIONS AND/OR QUALITY OF OUR PRODUCTS OR ANY SUITABILITY FOR A PARTICULAR PURPOSE. WITH REGARD TO THE TECHNICAL SPECIFICATIONS OF OUR PRODUCTS, WE KINDLY ASK YOU TO REFER TO THE RELEVANT PRODUCT DATA SHEETS PROVIDED BY US. OUR CUSTOMERS AND THEIR TECHNICAL DEPARTMENTS ARE REQUIRED TO EVALUATE THE SUITABILITY OF OUR PRODUCTS FOR THE INTENDED APPLICATION.

WE RESERVE THE RIGHT TO CHANGE THIS DOCUMENT AND/OR THE INFORMATION GIVEN HEREIN AT ANY TIME.

Additional information
For further information on technologies, our products, the application of our products, delivery terms and conditions and/or prices, please contact your nearest Infineon Technologies office (www.infineon.com).

Warnings
Due to technical requirements, our products may contain dangerous substances. For information on the types in question, please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by us in a written document signed by authorized representatives of Infineon Technologies, our products may not be used in any life-endangering applications, including but not limited to medical, nuclear, military, life-critical or any other applications where a failure of the product or any consequences of the use thereof can result in personal injury.