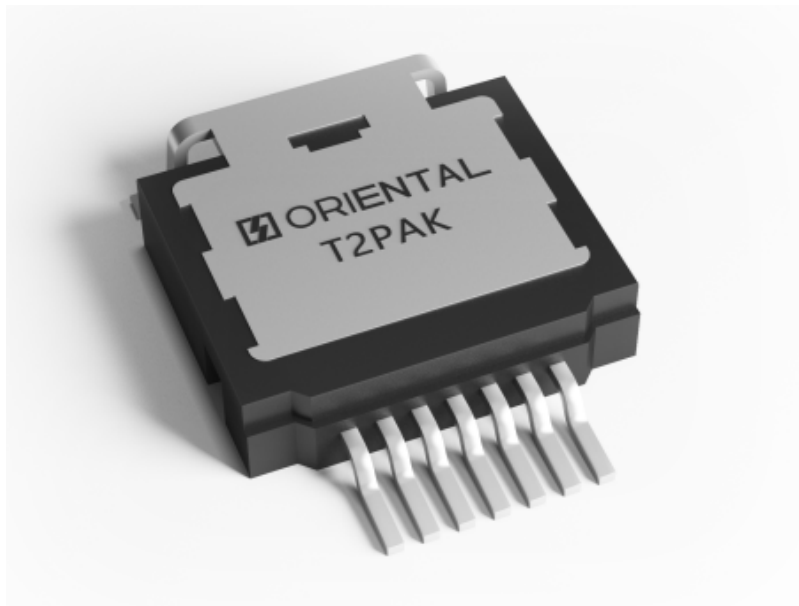




T2PAK Package Type ---SiC/SJ MOSFETs & IGBT

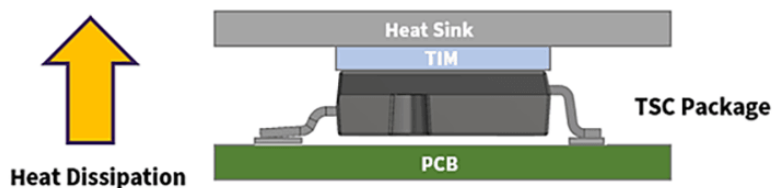
随着电力电子应用的需求日益增长，高电压系统正面临功率密度要求严苛与散热空间受限的双重挑战。为克服这一难题，东微半导体正式面向汽车与工业市场，发布已实现量产、采用 T2PAK 顶部散热封装的器件，旨在为系统设计提供更优的解决方案。

With the ever-growing demand for power electronics applications, high-voltage systems are facing dual challenges of stringent power density requirements and limited heat dissipation space. To address this issue, **Oriental Semiconductor** has officially launched mass-produced devices adopting the **T2PAK top-cooled package** for the automotive and industrial markets, aiming to deliver more optimized solutions for system design.



T2PAK 采用顶部冷却式 (TSC) 设计，可提供更高的功率密度、更高效的热管理以及更便捷的装配工艺。这些特性使其成为大功率汽车和工业应用的理想解决方案。

The T2PAK adopts a **Top-Side Cooling (TSC)** design, which delivers higher power density, more efficient thermal management, and more convenient assembly processes. These features make it an ideal solution for high-power automotive and industrial applications.

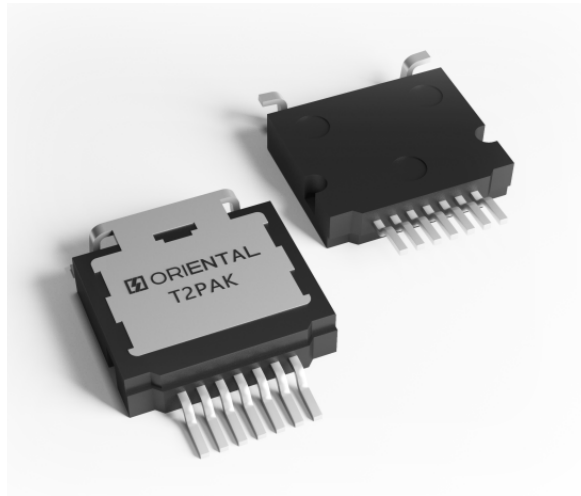


东微半导体推出的碳化硅 MOSFET T2PAK 封装产品，集温度特性稳定、开关速度快与卓越的短路鲁棒性于一身，能够满足日益增长的高功率、高电压工业应用需求。该产品是电动汽车充电桩、光伏逆变器及电机驱动等领域的理想选择。

The silicon carbide (SiC) MOSFET devices in T2PAK package launched by Oriental Semiconductor **integrate stable temperature characteristics, fast switching speed and excellent short-circuit robustness**, and are capable of meeting the ever-growing requirements of high-power



and high-voltage industrial applications. These products are ideal solutions for scenarios such as electric vehicle charging piles, photovoltaic inverters and motor drives.



热性能

- 顶部冷却的 SMD 封装

设计优势

- 开关损耗非常低
- 反向恢复快
- 开关速度快
- 关断损耗不受结温影响
- 体二极管速度快且稳健性佳

主要技术特性

- 卓越的 RDSon 温度稳定性
- 优异的栅极电荷及比值
 - 栅极驱动损耗低
 - 对寄生导通的耐受性高

关键应用

- 电动汽车充电基础设施
- 光伏逆变器
- 开关电源
- 不间断电源
- 电机驱动器

Thermal Performance

- Top-cooled SMD package

Design Advantages

- Extremely low switching losses
- Fast reverse recovery
- High switching speed
- Turn-off losses independent of junction temperature
- Fast and robust body diode

Key Technical Features

- Excellent RDSon temperature stability



- Superior gate charge and charge ratio
 - Low gate drive losses
 - High immunity to parasitic turn-on

Key Applications

- Electric vehicle charging infrastructure
- Photovoltaic inverters
- Switch-mode power supplies
- Uninterruptible power supplies
- Motor drives

