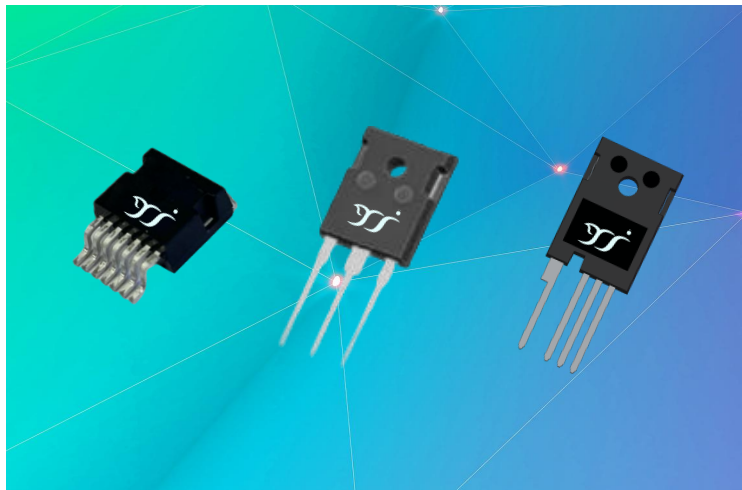


新品发布

突破硅基局限，SiC MOSFET解锁光伏微逆与工业电源新能效



产品介绍

扬杰科技近日推出了杰冠微自产1200V 120mΩ SiC MOSFET产品，包括TO-247AB、TO-247-4L以及TO-263-7L三种封装。在追求极致能效与系统紧凑化的电力电子设计中，完美平衡了导通损耗与开关性能，专为替代传统硅基超结MOSFET而生。

新品发布

产品特点

- 凭借SiC材料的物理特性，该器件拥有极低的寄生电容和极快的开关速度。其体二极管具备极低的反向恢复电荷（Qrr），能显著降低开关损耗，使电源系统轻松实现高频化设计，大幅提升功率密度。
- 支持高达 175°C 的结温工作环境。相比同等规格的硅器件，它能大幅减少散热器体积，甚至在部分低功率密度设计中实现无风扇散热，降低了系统整体成本。

| Product Name | Package | Vds(V) | ID(A) | PTOT(W) | Rdson(mohm)typ | Rdson(mohm)max | Qg(nC)typ | Vth(V)typ | Tj(°C) |
|------------------|-----------|--------|-------|---------|----------------|----------------|-----------|-----------|---------|
| YJD2120120B7YG3 | TO-263-7L | 1200 | 21 | 104 | 115 | 145 | 42 | 3.0 | -55-175 |
| YJD2120120NCFYG3 | TO-247-4L | | 24 | 161 | | | | | |
| YJD2120120NCTYG3 | TO-247AB | | 24 | 161 | | | | | |

更多产品详见官网



工业类主板



工业电源

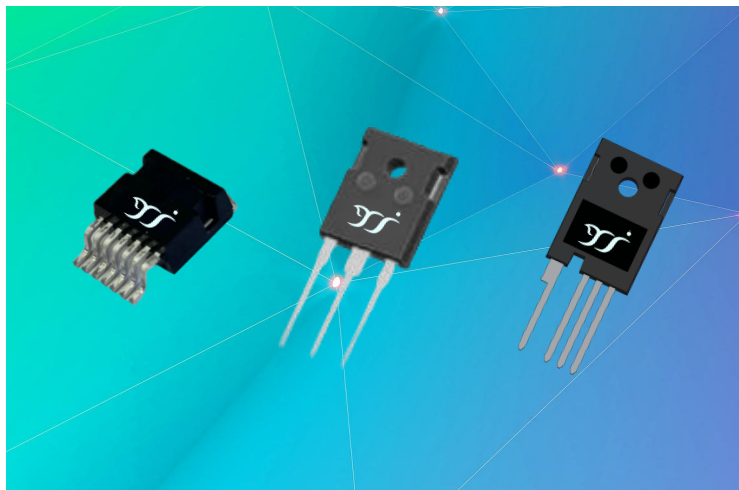


消费类电源

典型应用

NEW PRODUCT

New SiC MOSFET for PV Micro-inverter 、 Industrial Power Supplies & Consumer electronics



Product Introduction

Yangjie Technology recently launched the Jie Guan self-produced 1200V 120m Ω SiC MOSFET product, available in three packaging types: TO-247AB, TO-247-4L, and TO-263-7L. Designed for power electronics applications that demand ultimate energy efficiency and system compactness, it achieves a perfect balance between conduction loss and switching performance, specifically aimed at replacing traditional silicon-based super junction MOSFETs.

New Product Announcement

Product Features

- Leveraging the physical properties of SiC materials, this device features extremely low parasitic capacitance and very fast switching speeds. Its body diode has a very low reverse recovery charge (Qrr), which can significantly reduce switching losses, enabling power systems to easily achieve high-frequency designs and greatly enhance power density.
- It supports junction temperatures of up to 175°C. Compared to silicon devices of the same specifications, it can significantly reduce heatsink size and even allow fanless cooling in some low power density designs, reducing the overall system cost.

| Product Name | Package | Vds(V) | ID(A) | PTOT (W) | Rdson (mohm)typ | Rdson (mohm)max | Qg (nC)typ | Vth(V) typ | Tj(°C) |
|------------------|-----------|--------|-------|----------|-----------------|-----------------|------------|------------|---------|
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| YJD2120120NCFYG3 | TO-247-4L | | 24 | 161 | | | | | |
| YJD2120120NCTYG3 | TO-247AB | | 24 | 161 | | | | | |

Please refer to the official website for more products



Main Board



UPS



Power Supply Unit

Applica-tion