



# Yangjie Technology IGBT Photovoltaic Inverter

Who is Yangzhou Yangjie?

Company Yangzhou Yangjie Electronic Technology Co.,Ltd is one of the few outstanding IDM manufacturers in China which integrates discrete semiconductor chip design and production, semiconductor component assembly and test as well as market sales & services.

What are the applications of Yangjie technology?

APPLICATION Yangjie Technology Co., Ltd.'s power device products are widely used in various fields such as automotive electronics, new energy, industrial control, power supply, home appliances, lighting, security, network communication, consumer electronics, etc.+ Automotive Energy Industrial Power Smart Security Instrument Communication EMS

Are insulated-gate bipolar transistors a good choice for solar inverter applications?

For solar inverter applications, it is well known that insulated-gate bipolar transistors (IGBTs) offer benefits compared to other types of power devices, like high-current-carrying capability, gate control using voltage instead of current and the ability to match the co-pack diode with the IGBT.

Which EF-ficiency is possible for a solar inverter design?

The latest 600-V trench IGBT is optimized for switch-ing at 20 kHz. It can be seen that this IGBT has lower total power dissipation compared to the previous-generation planar IGBT (Fig. 4). We can conclude that the highest ef-ficiency possible for a solar inverter design, a trench-gate

Which IGBT has the lowest power dissipation?

Ultrafast IGBT switching at 20 kHz provide the lowest power-dissipation levels compared to fast and standard-speed devices. And of the two ultrafast types shown on the right, a trench-gate IGBT dissipates the least amount of power. IGBT is the device of choice for the high-side IGBTs. The same question arises for the low-side IGBTs.

Can a co-pack diode be optimized for a low-side IGBT?

Co-pack diodes across the low-side IGBTs can be optimized to minimize losses during freewheeling and reverse recovery. Let's assume a 1.5-kW solar inverter is being designed with a 230-Vac output. Which IGBT shown in the table will give the lowest power dissipation at 20 kHz?

SJ MOSFET for PV Micro-inverter & Industrial /Server Power Supplies Back. PDF. ... C2& E3 IGBT Modules for Variable-frequency Drive. SOD-123HE TVS Diode. YBS2G Gullwing Patch ...

IGBT. IGBT Module. IGBT Discrete. IGBT Automotive Module. Rectifier Diodes Module. ... SJ MOSFET for PV Micro-inverter & Industrial /Server Power Supplies. Three-phase Rectifier ...

PV Diode. Welded Diode. Automotive Rectifier ... IGBT. IGBT Module. IGBT Discrete. IGBT Automotive Module. Rectifier Diodes Module. Fast Recovery Module. ... Yangjie Technology: First quarter Report 2024 2024-05-09 Yangjie ...

Introduction 1?TO-247 package 50A 1200V IGBT discrete; 2?The voltage level is 1200V, the current level is 50A@Tc=100?; 3?Mainly used for server, inverter; ... &#169;2023 Yangzhou ...

El "Photovoltaic Inverter IGBT Module Market" prioriza el control de costos y la mejora de la eficiencia. Adem&#225;s, los informes abarcan tanto la demanda como la oferta del ...

At the same time, IGBT is one of the most unreliable components in the inverter, which is very sensitive to the temperature and current of the device. Therefore IGBT is the key protection object of power inverter. The ...

How to Choose the Proper Solar Inverter for a PV Plant . In order to couple a solar inverter with a PV plant, it's important to check that a few parameters match among them. Once the photovoltaic string is designed, it's ...

IGBT Technology An IGBT is basically a bipolar junction transistor (BJT) with a metal oxide semiconductor gate structure. This allows the gate of the IGBT to be controlled like a MOSFET ...

YangJie Technology recently launched the P40V MOSFETs with SOT-23, DFN5X6, TO-252 and other multi-package series, which can meet the needs of different power . ... Micro-pattern Trenches IGBT for Photovoltaic Inverter & ...

solar inverter is a power-electronic circuit that con-verts dc voltage from a solar array panel to ac voltage that can be used to power ac loads such as home appliances, lighting and power tools.



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