

Future transistor technology could create hotter hotspots on chips. Can new cooling methods and chip designs save us from thermal runaway? Imec's research offers hope, but the challenge grows with ...

An electronic ballast, in simplistic terms, takes a mains supply and transforms the energy to a storage capacitor, which in turn powers a half bridge to provide frequency ...

The EDT2 IGBT also exhibits outstanding light-load power loss, contributing to significantly improved system efficiency during practical cycles. The chip is optimized for switching frequencies within the 10kHz range. In ...

Energy storage current chips are critical components in modern electronic systems, facilitating the efficient management of energy resources. 1. These chips enhance the ...

For implantable medical devices, it is of paramount importance to ensure uninterrupted energy supply to different circuits and subcircuits. Instead of relying on battery ...

With the growing demand for lithium-ion batteries, MCUs, as a component of Battery Management Systems (BMS), are poised for significant growth. MCU, the brain of the system, is responsible ...

Secondly, recent advances of spray cooling in electronic industry are summarized, especially the system configurations, installation methods and more efficient ...

The embedded storage control chip market represents a critical segment of the semiconductor industry, serving as the backbone for data storage management across various electronic ...

Why Energy Storage Chips Are the Unsung Heroes of Modern Tech your smartphone dies mid-video call just as your cat starts doing that hilarious backward somersault. Frustrating, right? ...

Berkeley Lab scientists have achieved record-high energy and power densities in microcapacitors made with engineered thin films, using materials and fabrication techniques already widespread in chip ...

U.S. energy officials are reassessing the risk posed by Chinese-made devices that play a critical role in renewable energy infrastructure after unexplained communication equipment was found inside ...

Energy storage systems are essential to the operation of electrical energy systems. They ensure continuity of energy supply and improve the reliability of the system by providing excellent ...

