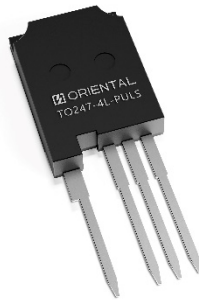




## TO247-4L-PLUS

1、电动汽车充电、电池储能系统，以及商用、工程和农用车辆（CAV）等大功率应用场景，正推动市场对更高系统级功率密度与效率的需求，以满足日益提升的性能预期。同时，这些需求也带来了新的设计挑战，例如，如何在严苛环境条件下实现可靠运行、在应对瞬态过载时如何保持稳定，以及如何优化整体系统性能。为应对这些挑战，东微半导体推出采用 TO247-4L-PLUS 系列。该器件支持更高的直流母线电压，可实现更优异的热性能、更小的系统尺寸，以及更高的可靠性。

1、High-power applications such as electric vehicle charging, battery energy storage systems, and commercial, construction, and agricultural vehicles (CAV) are driving the market demand for higher system-level power density and efficiency to meet ever-rising performance expectations. Meanwhile, these demands also bring about new design challenges, such as how to achieve reliable operation under harsh environmental conditions, how to maintain stability when handling transient overloads, and how to optimize overall system performance. To address these challenges, Sino-Micro Semiconductor has launched the TO247-4L-PLUS series. These devices support higher DC bus voltages, and are capable of delivering superior thermal performance, smaller system size, and higher reliability.



2、这些器件在严苛的应用环境下，依旧可实现更优的热性能以及更强的机械可靠性。全新电压等级为更快的开关速度提供了额外裕量，并简化了过压保护措施。这有助于降低对功率降额使用的需求，同时提升整个系统的可靠性。

2、These devices can still achieve superior thermal performance and enhanced mechanical reliability even under harsh application conditions. The new voltage rating provides additional margin for faster switching speeds and simplifies overvoltage protection measures. This helps reduce the need for power derating while improving the reliability of the entire system.

