



The Leader in High Temperature Semiconductor Solutions

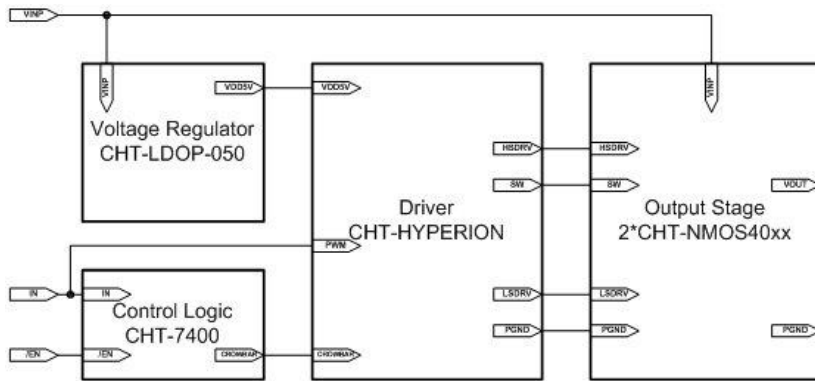
PRESS RELEASE

CISSOÏD introduces PROMETHEUS-II A High-Temperature Fast Driver for Power Transistors In Motor Drives, Inverters and SMPS

Mont-Saint-Guibert, Belgium – March, 2010 - Cissoïd, a leader in high temperature semiconductor solutions, released PROMETHEUS-II, a fast High Temperature Power Transistor Driver reference design suitable for operation from -55°C up to +225°C. PROMETHEUS-II brings the solution to drive Silicon-Carbide (SiC), GaN and other Power Devices such as MOSFET's, IGBT, JFET and BJT in highly demanding applications requiring reliable and continuous operation up to 225°C.

PROMETHEUS-II is the next product in Cissoïd's family of TITAN power drivers, which the company is going to further expand in the future. It is a reference design based on the recently introduced high temperature half-bridge driver CHT-HYPERION. All active components of the bill-of-material are high temperature proven products from Cissoïd, ensuring reliable operation at extreme temperatures.

Compared to the earlier version, PROMETHEUS-II brings greater sink/source current capability, shorter delays and faster rise and fall times. The current capability depends on the MOSFETs used in the output push-pull stage. As an example, the CHT-NMOS4005 is able to sink up to 6A at 25°C in switching mode. For applications requiring higher current capabilities, the CHT-NMOS4010 (for 12A at 25°C) or CHT-NMOS4020 (for 22A at 25°C) can be used.



Prometheus-II Block Diagram

PROMETHEUS-II is meant to be used with high voltage, high power devices in DC or AC Motor Drives, Switched Mode Power Supplies (SMPS) and any other power conversion application within high temperature environment or whenever system designers want to skip expensive cooling. Aeronautics (fly-by-wire), Train, Automotive (electric and hybrid vehicle), Industrial and Oil & Gas are amongst the target markets.

The application note for PROMETHEUS-II is available upon request. It includes detailed instructions to build a Power Transistors Driver, a reference design with its bill-of-material and schematic as well as detailed implementation for each chip of the BOM. Depending on specific customer needs, PROMETHEUS-II can be implemented with packaged components on a high-temperature Printed Circuit Board, or within a Multi-Chip-Module on the basis of bare dice. All active components are available immediately from Cissoid. A demonstration board can be ordered separately. For more information, visit www.cissoid.com or contact the company's representatives at www.cissoid.com/company/about-us/contacts.html.

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