

## ***PRESS RELEASE***

# **CISSOID Introduces a High-Temperature N-Channel MOSFET Transistor 80V / 1A in a Tiny SMD Package**

*Mont-Saint-Guibert, Belgium – November 27, 2012.* CISSOID, the leader in high-temperature semiconductor solutions, introduces the CHT-NMOS8001, the latest member of its EARTH family of general purpose transistors.

The CHT-NMOS8001 is an N-channel MOSFET guaranteed for operation from  $-55^{\circ}\text{C}$  up to  $+225^{\circ}\text{C}$ . It is available in a tiny thin dual flat pack (TDFP) hermetically-sealed Ceramic SMD package, as small as 5x5.5mm (PCB footprint).



This transistor is capable of switching a current up to 1A (continuous) or blocking a voltage up to 80V with a drain cut-off current as low as 10uA at  $225^{\circ}\text{C}$ . In repetitive pulse conditions, it is able to handle peak currents up to 3.3A at  $225^{\circ}\text{C}$ .

The NMOS8001 is a logic-level device, i.e. it can be directly driven by a 0-5V logic signal. The gate is protected by anti-series diodes, with ESD rating up to 2KV HBM, allowing a negative gate-to-source bias which gives more flexibility to circuit designers.

With a static on-state resistance ( $R_{\text{DS-ON}}$ ) of  $0.76\Omega$  at  $25^{\circ}\text{C}$  ( $1.56\Omega$  at  $225^{\circ}\text{C}$ ) and a total switching energy of 413nJ (at 40V/1A), the CHT-NMOS8001 offers a perfect

trade-off between conduction and switching losses for current switching in the range between 100mA and 500mA, e.g. in low-power low-voltage Flyback DC-DC converters.

The CHT-NMOS8001 will find its use in a number of designs involving low and medium power switching, power management and signal conditioning in applications like Oil&Gas (down-hole tools and smart completion), aeronautic, industrial and aerospace.

The CHT-NMOS8001 datasheet is available now from CISSOID's website ([datasheet link](#)). It can be ordered now for sampling and evaluation under the part number CHT-PLA4091A-TDFP16-T. Pricing starts at 107.27€/unit up to 200 units. For more information, visit [www.cisoid.com](http://www.cisoid.com) or contact the company's representatives at [www.cisoid.com/company/about-us/contacts.html](http://www.cisoid.com/company/about-us/contacts.html).