



The Leader in High Temperature Semiconductor Solutions

PRESS RELEASE

CISSOID introduces a High Temperature 80V Quad Diode

Mont-Saint-Guibert, Belgium – March 4th, 2015. CISSOID, the leader in high temperature semiconductor solutions, releases CHT-ELARA, a high-temperature 80V quad diode. This new device includes four independent and dielectrically isolated diodes that can be connected in different configurations: in series, in parallel for higher current, or in a rectifier bridge. Each individual diode can sustain a reverse voltage of 80V, has a maximum forward current of 900mA at 225°C and is suitable for operation from -55°C up to +225°C.

Monolithic integration provides better matching and thermal tracking between diodes while dielectric isolation offers design flexibility.

CHT-ELARA is packaged in a small hermetically sealed 5x5.5mm TDFP16 ceramic package, featuring a heat slug to achieve a junction-to-case thermal resistance as low as 11°C/W. High integration level and enhanced thermal characteristics make CHT-ELARA an optimal solution for power rectification, e.g. in flyback or forward DC-DC converters and gate drivers.

CHT-ELARA diodes have a low junction capacitance of 15pF at 25V reverse voltage, making them ideal for AC signal rectification, for example in a full-bridge rectifier easily implemented with a single chip. The diodes have a forward voltage of 0.33V for a forward current of 1mA at 225°C. They present a leakage current limited to 2µA at 80V reverse voltage and 225°C, making ELARA very suitable for high temperature voltage multipliers



(charge-pump). With a forward current of 450mA for a forward voltage of 1.5V at 225°C, ELARA can also be used in voltage clamping applications.

Pierre Delatte, CTO at CISSOID, commented: “CHT-ELARA is a very flexible product that can be used across the full temperature range (-55°C to +225°C) as a full bridge rectifier, a single diode, a clamping device, or any other configuration (e.g. common cathode, common anode). It provides the robustness and extended life time required in Aeronautics, Oil & Gas and Industrial applications.”

CHT-ELARA datasheet is available now from CISSOID web site at <http://www.cisoid.com/images/stories/pdf/Datasheets/CHT-ELARA.pdf>. CHT-ELARA is available in hermetically sealed TDFP16 ceramic package for sampling and evaluation.

For more information, visit www.cisoid.com or find the company's representatives at www.cisoid.com/company/about-us/contacts.html.

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