FAST HIGH VOLTAGE SOLID-STATE SWITCHES

- Operating voltages from 1 to 150 kV
- Peak currents from 12 A to 16 kA
- Nanoseconds rise & fall times, high di/dt
- Very stable operation and low jitter
- AC, DC & push-pull switching modules
- Easy control by TTL compatible inputs
- Galvanic isolation for highside switching
- Thyatron, sparkgap & tube replacement
- Alternative for HV vacuum & reed relays
- Medical appliances, laser electronics
- Microwave applications, radar modulators
- Instruments for science and industry

Over 300 standard models available!

The world's fastest High Voltage Thyristor:
Model HTS 440-1200-SCR
44 kVDC, 12 kA, tr < 0.5 μs

The world's smallest High Voltage MOSFET Switch:
Model HTS 181-01-C, 18 kV, 12 A, 10 Watt, 79 x 35 x 17 mm².
Rise time 5 ns. Available as single, push-pull, DC and AC switch, both in high or low current versions. Ideal as highly reliable replacement of high voltage vacuum and reed relays.

The world's biggest High Voltage MOSFET Switch:
Model HTS 1501-40-LCZ, 150 kV, 400 A, rise time < 80 ns.
Maximum power dissipation 30 kW with direct dielectric liquid cooling (DLC). Also available in a cost efficient plastic housing for moderate or low power dissipation.

DIELECTRIC LIQUID COOLING

PU2 - the intelligent DLC liquid cooling system for non-conductive coolants such as PFPE, PFC, HFC & HFE. Highly efficient heat removal directly from BEHLKE high voltage switches or any other complex high voltage and / or high frequency application of up to 10 kW power dissipation. The PU2 unit consists of a coolant reservoir, a long life coolant pump (MTBF >100,000 h) as well as a fully integrated control and safety electronics. With temperature depending speed control of pump and radiator fan, coolant flow detector, fill level sensor & overheat protection. 19 inch rack housing compatible (3HE / 3HU).

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