

ABSTRACT

CONTROL SYSTEM FOR A BIDIRECTIONAL
SWITCH WITH TWO TRANSISTORS

A control system for a bidirectional switch (20) is described, formed of a pair of MOFSET power transistors (210, 220) connected in anti-series, i.e. source to source or drain to drain. This control system includes means (50) allowing the state of conduction of the power transistors to be controlled, one or the other of these
5 transistors being able to be set to the " OFF " state in order to assure the interruption of a current through the bidirectional switch (20).

This control system includes coupling means (SW_{CPL} , 510) enabling the gate of the power transistor at the " ON " state to be coupled at least temporarily with the gate of the power transistor at the " OFF " state when the bidirectional switch is
10 switched on. This has the advantage of allowing, on the one hand, the use of high control voltages assuring a reduction in the series resistance of the power transistors, and, on the other hand, the bidirectional switch to be quickly switched on.

Figure 3