The TDE1707BFP is a 0.5A Integrated Power Switch with up to 48V Power supply capability. Two output configurations are possible:

- Load to Gnd. (High Side Mode)
- Load to Vs (Low side Mode)

Especially dedicated to proximity detectors, its internal +5V supply can be used to supply external circuits (See also AN495/0692). A signal is internally generated to block the In signal, and prevent activation of the output switch, as long as an abnormal condition is detected. The power-on transition, as well as the chip overtemperature and the output overcurrent, concurr to the generation of such signal. A minimum delay of 25 µs (Typ. value) is added to the trailing edge of such signal to ensure that a stable normal situation is present when the signal disappears. The delay (of the disappearance of the block signal; no delay at its onset) can be further increased connecting a capacitor between pin 3 and ground. It can drive resistive or inductive loads.

This is preliminary information on a new product now in development or undergoing evaluation. Details are subject to change without notice.

September 2003

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ORDERING NUMBER: TDE1707BFP

BLOCK DIAGRAM

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