The L6382D is suitable for microcontrolled electronic ballasts embedding a PFC stage and a half-bridge stage. The L6382D includes 4 MOSFET driving stages (for the PFC, for the half-bridge, for the preheating MOSFET) plus a power management unit (PMU) featuring also a reference able to supply the microcontroller in any condition.

Besides increasing the application efficiency, the L6382D reduces the bill of materials because different tasks (regarding drivers and power management) are performed by a single IC, which improves the application reliability.