



## Product brief

# OptiMOS™ PD

The best fit for USB PD and fast charger designs

OptiMOS™ PD is Infineon's new MOSFET portfolio representing the best fit for USB-PD and fast charger designs, supporting short lead times as well as fast quote response times.

The OptiMOS™ PD family features MOSFETs offering a low on-state resistance ( $R_{DS(on)}$ ), less switching losses as well as low gate, output and reverse recovery charges.

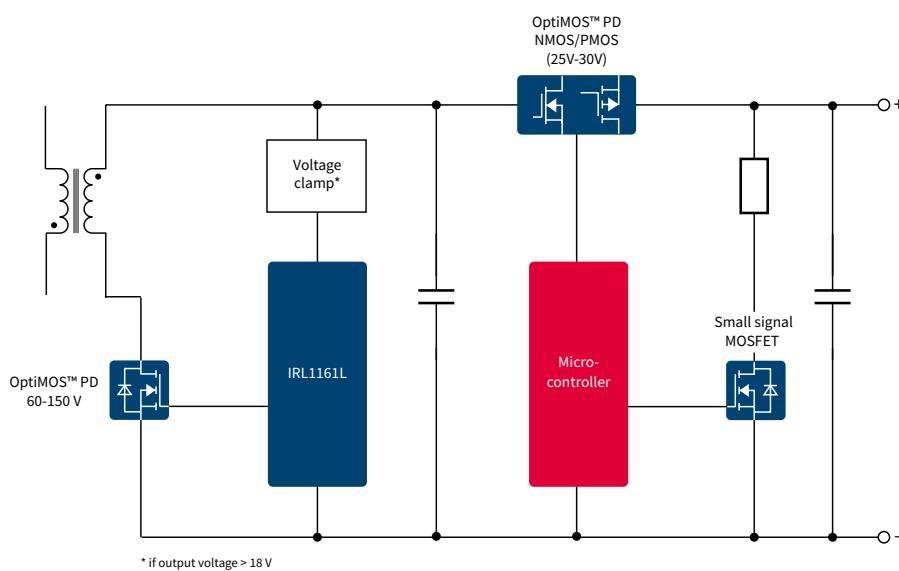
The reduction in overall losses results in an excellent price/performance ratio leading to a decrease in total system BOM cost.

Logic level availability enables parts to be fully driven from 4.5 V or directly from microcontrollers resulting in a lower part count in the application. The portfolio ranges from 25 V up to 150 V MOSFETs where 25 V and 30 V products represent the fit as load switch and 60-150 V parts are the optimal choice to function as synchronous rectification FETs in charger and adapter designs.

Infineon's OptiMOS™ PD portfolio is available in 2 small standard packages:

- › PQFN 3.3x3.3
- › SuperSO8

### Block diagram



[www.Infineon.com/optimos-pd](http://www.Infineon.com/optimos-pd)

### Key features

- › Logic level availability
- › Low on-state resistance ( $R_{DS(on)}$ ) without increased charges
- › Low gate, output and reverse recovery charge
- › Excellent thermal behavior

### Key benefits

- › Logic level parts can be fully driven from 4.5 V
- › Lower overall losses
- › Lower switching losses
- › Highest efficiency and power density designs
- › Short lead times
- › Fast quote response



