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
OptiMOS™ PD

The best fit for USB PD and fast charger designs

OptiMOS™ PD comparison of $R_{\text{DS(on)}}$ in 60 V, 80 V and 100 V

Product portfolio

<table>
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<tr>
<th>Package</th>
<th>Voltage class [V]</th>
<th>$R_{\text{DS(on)},\text{max.}}$ @VGS = 10 V</th>
<th>$R_{\text{DS(on)},\text{max.}}$ @VGS = 4.5 V</th>
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*VGS = 6 V

Best choice for a wide range of designs, lead time optimized (<10 weeks)

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