

Power MOSFET, N-Channel, SUPERFET® III, Easy Drive, 650 V, 17 A, 180 mΩ, POWER88

|               |                                       |
|---------------|---------------------------------------|
| Manufacturers | <a href="#">ON Semiconductor, LLC</a> |
| Package/Case  | PQFN-4                                |
| Product Type  | Transistors                           |
| RoHS          |                                       |
| Lifecycle     |                                       |



Images are for reference only

Please submit RFQ for FCMT180N65S3 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

SUPERFET III MOSFET is ON Semiconductor's brand-new high voltage super-junction(SJ) MOSFET family that is utilizing charge balance technology for outstanding low on-resistance and lower gate charge performance. This technology is tailored to minimize conduction loss, provide superior switching performance, dv/dt rate and higher avalanche energy. Consequently, SUPERFET III MOSFET is very suitable for the switching power applications such as server/telecom power, adapter and solar inverter applications. The Power88 package is an ultra-slim surface-mount package (1mm high) with a low profile and small footprint (8 \* 8 mm<sup>2</sup>). SUPERFET III MOSFET in a Power88 package offers excellent switching performance due to lower parasitic source inductance and separated power and drive sources. Power88 offers Moisture Sensitivity Level 1(MSL 1).

## Features

700 V @>

Higher system reliability at low temperature operation

Leadless Ultra-thin SMD package

High power density

Kelvin contact

Low gate noise and switching loss

Ultra Low Gate Charge (Typ.>

Low switching loss

Low Effective Output Capacitance (Typ.>

Low switching loss

Optimized Capacitance

Lower peak Vds and lower Vgs oscillation

Typ.>

100% Avalanche Tested

RoHS Compliant

Moisture Sensitivity Level 1 guarantee

Internal Gate Resistance: 0.5  $\Omega$

## Application

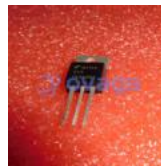
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## Related Products



### [FCPF11N60F](#)

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TO-220F



### [FCP190N65F](#)

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TO-220



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### [FCB20N60FTM](#)

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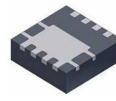
[FCB199N65S3](#)

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