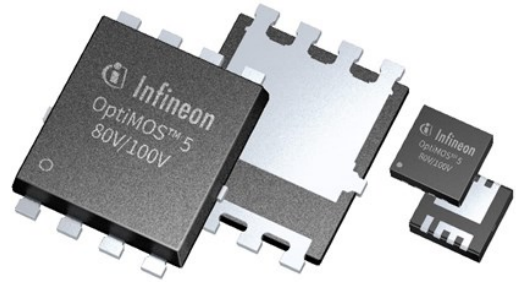


# OptiMOS™-5 80 V/100 V automotive MOSFET in SSO8 and S3O8 packages for 48 V applications

Infineon is extending its product family of 80 V and 100 V MOSFETs based on OptiMOS™-5 Silicon technology. The MOSFET family is offered in SSO8 package with its 5x6 mm<sup>2</sup> footprint for medium power and the smaller S3O8 for lower power applications, such as 48V auxiliaries, but also automotive LED lighting. The new MOSFETs have tightened VGS thresholds in order to support designs with parallel MOSFETs, providing a very low system level  $R_{DS(on)}$ . Next to the low  $R_{DS(on)}$  types, a broad selection of 80 V and 100 V MOSFETs with higher  $R_{DS(on)}$  is on offer.



## Features

- >  $R_{DS(on)}$  down to 3.1 mOhm (80 V) and 4.0 mOhm (100 V) in SSO8 package
- > Higher  $R_{DS(on)}$  variants in 80 V and 100 V in small S3O8 package

## Target applications

- > 48 V-12 V DC-DC converter
- > 48 V battery management systems and power distribution
- > 48 V e-booster, e-compressor and e-suspension
- > 48 V auxiliaries

## Benefits

- > Reduced conduction losses
- > Optimized switching performance
- > Reduced form factor compared to traditional SMD packages

## Competitive advantage

- > best in class  $R_{DS(on)}$
- > Lower package resistance and inductance
- > Broad MOSFET portfolio offering with various package options

## Product overview incl. data sheet link

OPN	SP Number	Package
<a href="#">IAUC100N10S5N040ATMA1</a>	SP001646990	PG-TDSON-8
<a href="#">IAUC100N08S5N043ATMA1</a>	SP001780758	PG-TDSON-8
<a href="#">IAUC70N08S5N074ATMA1</a>	SP001780762	PG-TDSON-8
<a href="#">IAUC90N10S5N062ATMA1</a>	SP001468520	PG-TDSON-8
<a href="#">IAUC100N10S5L040ATMA1</a>	SP001646988	PG-TDSON-8
<a href="#">IAUC100N08S5N031ATMA1</a>	SP001780754	PG-TDSON-8
<a href="#">IAUS300N08S5N014ATMA1</a>	SP001792358	PG-HSOG-8
<a href="#">IAUS240N08S5N019ATMA1</a>	SP001792360	PG-HSOG-8
<a href="#">IAUS200N08S5N023ATMA1</a>	SP001792362	PG-HSOG-8
<a href="#">IAUZ20N08S5L300ATMA1</a>	SP002016352	PG-TSDSON-8
<a href="#">IAUZ30N10S5L240ATMA1</a>	SP002143552	PG-TSDSON-8
<a href="#">IAUC24N10S5L300ATMA1</a>	SP002143554	PG-TDSON-8
<a href="#">IAUZ18N10S5L420ATMA1</a>	SP002143556	PG-TSDSON-8
<a href="#">IAUZ40N10S5N130ATMA1</a>	SP002143558	PG-TSDSON-8
<a href="#">IAUC28N08S5L230ATMA1</a>	SP002669400	PG-TDSON-8

## Product collaterals / Online support

[Product Family Page](#)