PRODUCT BRIEF

OptiMOS™ 7 40V SS08 5x6

New benchmark for R_{on}, design ruggedness and switching performance

Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) introduces its latest Power MOSFET technology generation called OptiMOS™ 7 40V in industry standard SSO8 5x6 (TDSON-8) robust power packages for Automotive.

Automotive standard SSO8 5x6 (TDSON-8) offers high current capability of 175 A at a small footprint of 30 mm^2. In combination with Infineon's leading OptiMOS™ 7 40V Power MOSFET technology it offers best in class power density and power efficiency at Infineon's well-known quality level for robust automotive packages.

OptiMOS™ 7 40V in SSO8 5x6 offers highest power density and energy efficiency at the industry's lowest on-state resistance on a 30 mm^2 footprint. At the same time, it offers reduced switching losses, improved SOA ruggedness and high avalanche current capability to facilitate high efficient system design for tomorrows automotive applications.

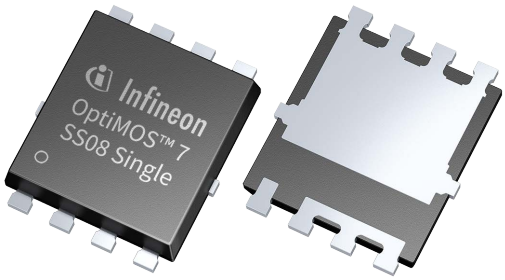
Infineon OptiMOS™ 7 40V in SSO8 5x6 product family focus on high power automotive applications, especially EPS, Safety Switches, DC-DC and all BLDC drives in CO_2 friendly vehicles.

The product family of OptiMOS™ 7 40V in the SSO8 5x6 package ranges from 0.42–3.0 mΩ.

More information on OptiMOS™ 7 40V SSO8 5x6:
https://www.infineon.com/cms/en/product/promopages/OptiMOS7_40V/#

Product table

Product name	Voltage [V]	$R_{DSon(max)}$ [mΩ]	$I_{D(max)}$ [A]
IAUCN04S7N004	40	0.44	175
IAUCN04S7N005	40	0.55	175



Key features

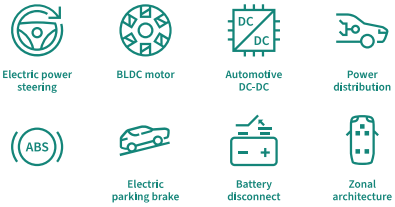
- Very low $R_{DS(on)}$
- High avalanche capability
- High SOA ruggedness
- Fast switching times (turn on/off)
- Leadless packages w/ Cu-Clip
- Leading thin wafer Cu-technology
- Leading 300 mm in-house production

Key benefits

- High power density & efficiency
- Increased current capability
- Improved design ruggedness
- Superior switching performance
- Small footprint & efficient cooling
- Automotive quality product design
- High automotive quality

Key applications

- Electric power steering
- Braking systems
- Power disconnect switches in zonal architectures
- Battery management
- E-fuse boxes
- DC-DC
- Automotive BLDC drives



www.infineon.com

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