PRODUCT BRIEF

OptiMOS™7 40V TOLL 10x12 New

benchmark for best-in-class Ron, highest power density & efficiency

Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) introduces its latest Power MOSFET technology generation called OptiMOS™ 7 40V in industry standard TOLL 10x12 (PG-HSOF-8) robust power packages for Automotive.

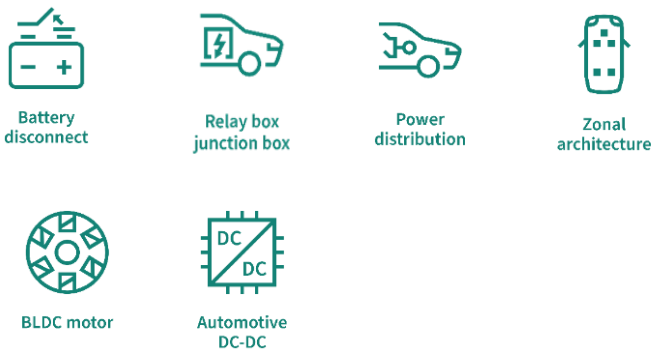
Automotive standard TOLL 10x12 (PG-HSOF-8) offers highest current capability of 350A at a footprint of 10x12mm^2. In combination with Infineon's leading OptiMOS-7™ 40V Power MOSFET technology it offers best in class power density and power efficiency at Infineon's high-quality level for robust automotive packages.

OptiMOS™ 7 40 V in TOLL 10x12 (PG-HSOF-8) offers highest power density and energy efficiency at the industry's lowest on-state resistance on a 10x12mm2 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 40 V in TOLL 10x12 product family focus on highest power automotive applications, especially Disconnect Switches, Battery Management Systems, DC/DC and all high-power BLDC drives for tomorrow's Automotive applications in CO_2 friendly vehicles.

The product family of OptiMOS™ 7 40 V in the TOLL 10x12 package ranges from best in class 0.24 mOhm down to 0.44 mOhm.

More information on OptiMOS™ 7 40 V TOLL 10x12:
https://www.infineon.com/cms/en/product/promopages/TOLL_10x12/



Key features

- Ultra low RDS(on)
- High Avalanche capability
- High SOA ruggedness
- Fast switching times (turn on/off)
- Leadless Packages w/ Cu-Clip
- Leading thin wafer Cu-technology
- Leading 300mm in-house production

Key benefits

- High power density & efficiency
- Increased current capability
- Improved design ruggedness
- Superior switching performance
- 10x12 mm2 footprint with efficient cooling
- Automotive quality product design
- High automotive quality

Key applications

- Power-distribution switches in EE architectures
- Battery management systems
- Junction boxes
- DC/DC
- Automotive BLDC drives

Product Table

Product name	Voltage [V]	RDSon(max) [mOhm]	ID(max) [A]
IAUTN04S7N003	40	0,24	350
IAUTN04S7N004	40	0,38	350
IAUTN04S7N005	40	0,44	350

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