PRODUCT BRIEF

OptiMOS 7TM 40V mTOLG 8x8

mTOLG offers an 8x8 footprint in addition to the standard sTOLL 7x8

Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) introduces its latest Power MOSFET technology generation called OptiMOS™ 7 40V in mTOLG 8x8 (HSOG-4) robust power packages for Automotive.

The automotive mTOLG 8x8 (HSOG-4) package offers high current capability of 280A at a footprint of 8x8mm^2. In combination with Infineon's leading OptiMOS-7^{TM} 40V Power MOSFET technology it offers high power density and power efficiency at Infineon's high-quality level for robust automotive packages.

OptiMOS™ 7 40 V in mTOLG 8x8 (HSOG-4) offers high power density and energy efficiency at a low on-state resistance of down to 0.5mOhm. 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 mTOLG 8x8 product family focus on high power automotive applications, especially all kind of switches and BLDC drives on IMS substrates where higher TCOB performance is required for tomorrows Automotive applications in CO_2 friendly vehicles.

The product family of OptiMOS™ 7 40 V in the mTOLG 8x8 package ranges from best in class 0.50 mOhm down to 1.14 mOhm.

Infineon recommends sTOLL 7x8 in terms of best performance & price over mTOLG. Whereas mTOLG 8x8 is recommended for IMS substrate applications.

More information on OptiMOS7 40V mTOLG 8x8 (HSOG-4):
https://www.infineon.com/cms/en/product/promopages/mTOLG_8x8/


BLDC motor


Zonal architecture


Battery disconnect


Power distribution

Key features

- Low RDS(on) in 8x8mm2
- High Avalanche capability
- High SOA ruggedness
- Fast switching times (on/off)
- Leadless Packages w/ Cu-Clip
- Thin wafer Cu-technology
- 300mm in-house production
- Gullwing package w/ long leads

Key benefits

- High power density in 8x8
- Increased current capability
- Improved design ruggedness
- Good switching performance
- efficient cooling in 8x8mm2
- Automotive quality package
- Automotive quality production
- High TCOB performance on IMS (Insulated Metal Substrate)

Key applications

- Automotive BLDC drives
- Zonal architecture switches
- Battery disconnect
- Power distribution

Product Table

Product name	Voltage [V]	RDSon(max) [mOhm]	ID(max) [A]
IAUMN04S7N005G	40	0.50	250
IAUMN04S7N006G	40	0.60	200
IAUMN04S7N009G	40	0.86	200
IAUMN04S7N011G	40	1.14	180

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