

# OptiMOS™-7 40V in SSO8 HB 5x6

Half-bridge configuration with high current capability up to 100A as perfect layout for 3-phase Automotive drive applications

Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) is extending its Automotive MOSFET technology generation OptiMOS™-7 40V in industry standard SSO8 HB 5x6 (PG-TDSON-8) robust power packages.

The Automotive standard SSO8 HB 5x6 package offers two N-channel MOSFETs in H-bridge configuration at a very high current of up to 100A.

OptiMOS™-7 40V in SSO8 HB 5x6 offers highest power density and energy efficiency at the industry's lowest on-state resistance on a 5x6 mm<sup>2</sup> footprint. Infineon's SSO8 HB 5x6 leading robust Automotive packages offer lowest costs per channel at best quality for Automotive design.

Furthermore, SSO8 HB 5x6 in OptiMOS™-7 40V offers reduced switching losses, improved SOA ruggedness and high avalanche current capability to facilitate efficient system designs for tomorrow's Automotive applications.

IAUCN04S7L025AH is a special design with an asymmetric H-bridge for Automotive USB-charging applications.

The SSO8 HB 5x6 in OptiMOS™-7 40V product family focuses on very cost-efficient power Automotive applications, especially body control drives, window-lift, power-lift gate, power-seat, electric parking brake, USB-charging, water pumps and in principle all cost efficient & small BLDC drives for tomorrow's Automotive applications in CO<sub>2</sub>-friendly vehicles.

The product family of OptiMOS™-7 40V in the SSO8 HB 5x6 package ranges from best-in-class 2.3 mΩ to 5.4 mΩ per MOSFET channel.

More information on OptiMOS™-7 40V SSO8 HB 5x6:  
<https://www.infineon.com/package-technology/ss08-5x6>



Power lift gate



Window lift



Power seat



Water pump



BLDC motor



Body control module



Electric parking brake



DC-DC

## Key features

- 5x6 mm<sup>2</sup> H-bridge footprint
- Up to 100A high current capability
- 2-channel H-bridge configuration
- Leading-edge OptiMOS™-7 40V
- R<sub>DS(on)</sub> range: 2.3 mΩ - 5.4 mΩ
- Robust Cu-clip for lowest package resistance + minimized stray inductance
- High avalanche capability and SOA ruggedness

## Key benefits

- Highest power and current density in 5x6 mm<sup>2</sup> H-bridge
- Optimized layout and form factor
- High thermal capacity lead-frame
- Reduced conduction losses
- Optimized switching behavior
- JEDEC industry standard package
- Automotive robust package & quality by Infineon

## Key applications

- Power-lift gate
- Window-lift
- Power-seat
- Water / oil / fuel pump
- Small BLDC drives
- Body control modules
- Electric parking brake
- USB-charging / DC-DC

Product Table

Product name	Voltage [V]	R <sub>DS(on)</sub> (max) [mOhm]	I <sub>D</sub> (max) [A]	Product status
<a href="#">IAUCN04S7L023H</a>	40	2.34	100	active & preferred
<a href="#">IAUCN04S7N024H</a>	40	2.46	100	active & preferred
<a href="#">IAUCN04S7L037H</a>	40	3.78	84	active & preferred
<a href="#">IAUCN04S7N040H</a>	40	4.01	82	active & preferred
<a href="#">IAUCN04S7L050H</a>	40	5.04	65	active & preferred
<a href="#">IAUCN04S7N054H</a>	40	5.41	62	active & preferred
<a href="#">IAUCN04S7L025AH</a>	40	2.56   5.04	100   65	active & preferred



[www.infineon.com](http://www.infineon.com)

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