

# OptiMOS™-7 40 V in S3O8 3x3

Best choice for high power up to 60A in small 3x3 mm<sup>2</sup> package footprint

Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) offers its leading Automotive MOSFET technology “OptiMOS™-7 40 V” in the standard S3O8 3x3 (PG-TSDSON-8) power packages.

The IFX Automotive version of S3O8 3x3 (PG-TSDSON-8) offers Cu-clip connection with 60A current capability. In combination with Infineon’s leading OptiMOS™-7 40 V power MOSFET technology, it offers best-in-class power density and power efficiency at Infineon’s high-quality level for robust Automotive packages.

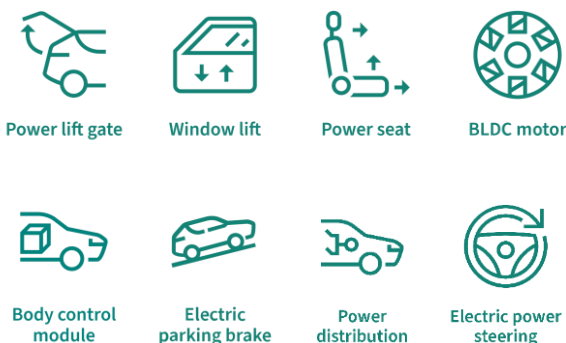
OptiMOS™-7 40 V in S3O8 3x3 offers highest power density and energy efficiency at the industry’s lowest on-state resistance on a 3x3 mm<sup>2</sup> footprint. At the same time, it offers reduced switching losses, improved SOA ruggedness and high avalanche current capability to facilitate high efficient system design for tomorrow’s Automotive applications.

Infineon’s OptiMOS™-7 40 V S3O8 3x3 product family focuses on very cost-efficient solutions for Automotive power applications, especially power distribution, body control modules, window-lift, power-lift gate, power-seat, electric parking brake, but also high redundancy EPS systems plus all cost efficient & small BLDC drives for tomorrow’s Automotive applications in CO<sub>2</sub> friendly vehicles.

The product family of OptiMOS™-7 40 V in the S3O8 3x3 package ranges from best-in-class 1.2 mΩ up to 4.9 mΩ.

More information on OptiMOS™-7 40 V S3O8 3x3:

<https://www.infineon.com/package-technology/s3o8-3x3>



## Key features

- 3x3 mm<sup>2</sup> small footprint
- 60A high current capability
- Available in leading-edge OptiMOS™-7 40 V technology
- $R_{DS(on)}$  range: 1.2 mΩ – 4.9 mΩ
- Advanced leadless package with Cu-clip for low package  $R_{DS(on)}$  and min. stray inductance
- High avalanche capability and SOA ruggedness

## Key benefits

- Highest power and current density
- High thermal capacity lead-frame package
- Reduced conduction losses
- Optimized switching behavior
- Reduced form factor compared to traditional leaded packages
- JEDEC industry standard package PG-TSDSON-8

## Key applications

- Power distribution
- Body control modules
- Window-lift
- Power-lift gate
- Power-seat
- Electric parking brake
- High redundancy EPS
- Small BLDC drives

Product Table

Product name	Voltage [V]	$R_{DS(on)}$ (max) [mΩ]	$I_D$ (max) [A]	Availability
<a href="#">IAUZN04S7L012</a>	40	1.25	60	available
<a href="#">IAUZN04S7N013</a>	40	1.33	60	available
<a href="#">IAUZN04S7L019</a>	40	1.90	60	available
<a href="#">IAUZN04S7N020</a>	40	2.00	60	available
<a href="#">IAUZN04S7L025</a>	40	2.56	60	available
<a href="#">IAUZN04S7N026</a>	40	2.69	60	available
<a href="#">IAUZN04S7L030</a>	40	3.05	60	available
<a href="#">IAUZN04S7N032</a>	40	3.25	60	available
<a href="#">IAUZN04S7L046</a>	40	4.64	60	available
<a href="#">IAUZN04S7N049</a>	40	4.93	60	available



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

Published by  
Infineon Technologies AG  
Am Campeon 1-15, 85579 Neubiberg  
Germany

© 2025 Infineon Technologies AG  
All rights reserved.

Public

Date: 08/2025

**Please note!**

This Document is for information purposes only and any information given herein shall in no event be regarded as a warranty, guarantee or description of any functionality, conditions and/or quality of our products or any suitability for a particular purpose. With regard to the technical specifications of our products, we kindly ask you to refer to the relevant product data sheets provided by us. Our customers and their technical departments are required to evaluate the suitability of our products for the intended application.

We reserve the right to change this document and/or the information given herein at any time.

**Additional information**

For further information on technologies, our products, the application of our products, delivery terms and conditions and/or prices, please contact your nearest Infineon Technologies office ([www.infineon.com](http://www.infineon.com)).

**Warnings**

Due to technical requirements, our products may contain dangerous substances. For information on the types in question, please contact your nearest Infineon Technologies office.

Except as otherwise explicitly approved by us in a written document signed by authorized representatives of Infineon Technologies, our products may not be used in any life-endangering applications, including but not limited to medical, nuclear, military, life-critical or any other applications where a failure of the product or any consequences of the use thereof can result in personal injury.