

OptiMOS™7 40 V Dual SSO8 Automotive MOSFETs

Best choice for high-power & cost efficiency up to 60 A

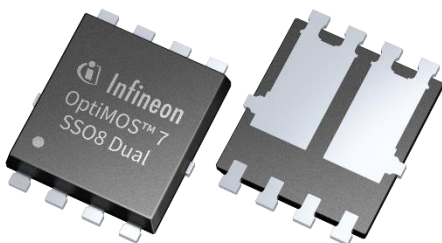
Infineon is extending its automotive MOSFET package technology generation “OptiMOS™7 40 V” with industry standard SSO8 Dual 5x6 (PG-TDSON-8) robust power packages. The automotive standard SSO8 Dual 5x6 mm² package offers two N-channel MOSFETs in one standard 5x6 mm² footprint at a high current capability.

Combined 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 and lowest cost per channel on a 5x6 mm² footprint.

At the same time, it offers reduced switching losses, improved SOA ruggedness and high avalanche current capability to facilitate highly efficient system designs for tomorrow’s automotive applications.

Infineon’s OptiMOS™7 40 V Dual SSO8 5x6 product family focuses on very cost-efficient power automotive applications – especially body control modules, window-lift, power-lift gate, power-seat, electric parking brake, USB-charging, water pumps and all cost-efficient & small BLDC drives for tomorrow’s automotive applications in CO₂ friendly vehicles.

The product family of OptiMOS™7 40 V in the Dual SSO8 5x6 package ranges from best in class 1.94 mΩ to 5.59 mΩ per MOSFET channel.



Key features

- 5x6 mm² small footprint
- 60 A high current capability
- Available in leading-edge OptiMOS™7 40 V technology
- R_{DS(on)} range: 1.94mΩ to 5.59 mΩ
- Leadless package with Cu-clip for lowest package resistance & minimized stray inductance
- High avalanche capability

Key benefits

- Highest power & current density
- High thermal capacity leadframe package
- Reduced conduction losses
- Optimized switching behavior
- Reduced form factor compared to traditional leaded packages
- Industry standard package (JEDEC standard PG-TDSON-8)

Key applications

- All body control modules
- Window-lift
- Power-lift gate
- Power-seat
- Electric parking brake
- USB-charging
- Water pump
- Small BLDC drives



Power lift gate



Window lift



Body control module



Water pump



BLDC motor



Power seat

PRODUCT BRIEF

Product Table

Product	Orderable Part Number (OPN)	$R_{DS(on)}$ max. [mΩ]	I_D (DC current) [A]	I_D (chip limitation) [A]	Q_G typ. [nC]	$V_{GS(th)}$ [LL/NL]
IAUCN04S7L018D	IAUCN04S7L018DATMA1	1.94	60	166	43	LL
IAUCN04S7N019D	IAUCN04S7N019DATMA1	1.99	60	160	37	NL
IAUCN04S7L024D	IAUCN04S7L024DATMA1	2.49	60	125	27	LL
IAUCN04S7N024D	IAUCN04S7N024DATMA1	2.49	60	125	23	NL
IAUCN04S7L038D	IAUCN04S7L038DATMA1	3.84	60	84	15	LL
IAUCN04S7N040D	IAUCN04S7N040DATMA1	4.04	60	82	13	NL
IAUCN04S7L053D	IAUCN04S7L053DATMA1	5.34	60	64	11	LL
IAUCN04S7N056D	IAUCN04S7N056DATMA1	5.59	60	62	9	NL

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