New Product Introduction
OptiMOS™ 7 40 V in Dual SSO8

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public

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Package Description

SSO8 Dual (TDSON-8)



L x W x H

6.5 x 5.1 x 1.0 mm³

I_{Dmax} (DC current) at Tj=25 °C:
60A

Cu-Clip soldered

Latest product family in production:
OptiMOS™ 7 with BiC: 1.9mΩ

Application Examples



Key features	Key benefits
– New Dual SSO8 5x6 mm² with clip for increased current capability – Small footprint for low & mid power BLDC motor drive applications – Advanced leadless package with Cu-Clip for lowest package resistance and – Minimized stray inductance – High avalanche capability and SOA ruggedness – AOI capable package for Automated Optical Inspection	– 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 – Industry standard package (JEDEC standard PG-TDSON-8-60/61) – Easy back-to-back configuration

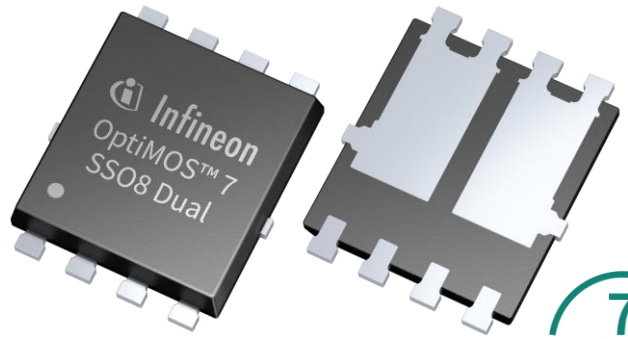
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New Product Introduction

- Infineon is extending its Automotive Package MOSFET technology generation – **OptiMOS™ 7 40 V** in industry standard **Dual SSO8 5x6 mm²** (PG-TDSON-8) power packages for robust automotive application.
- The Dual SSO8 package offers two N-channel MOSFETs in one standard 5x6 mm² footprint at a very high 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 and lowest cost per channel.

Dual SSO8 5x6 mm²



Product Name	Orderable Part Number (OPN)	V_{DS} [V]	$R_{DS(on)}$ max at V_{GS} 10V [mΩ]	Q_G typ. [nC]	R_{thJC} max. [K/W]	FOM [mΩ*nC]	I_D max. at 25°C [A]
IAUCN04S7N019D	IAUCN04S7N019DATMA1	40	1.90	48	1.6	91.2	60
IAUCN04S7N024D	IAUCN04S7N024DATMA1	40	2.44	30	2.1	73.2	60
IAUCN04S7N040D	IAUCN04S7N040DATMA1	40	4.04	17	2.9	68.68	60
IAUCN04S7L053D	IAUCN04S7L053DATMA1	40	5.34	14	3.7	74.76	60
IAUCN04S7N056D	IAUCN04S7N056DATMA1	40	5.59	12	3.7	67.08	60

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