

New Product Introduction
OptiMOS™ 5 100 V in Dual SSO8

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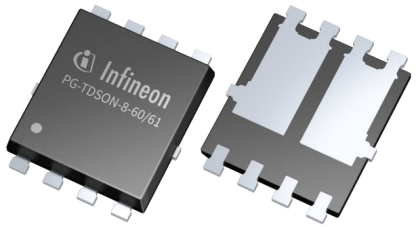
public

OptiMOS™ 5 100 V in Dual SSO8

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™ 5 with BiC: 9.4mΩ

Application Examples

Wireless charging

Car lighting

MPI injector

Transmission

Fans, 48V

Key features	Key benefits
– $R_{DS(on)}$ reduced > 50% from prior best – Industry's best $R_{DS(on)}$ – 60 A current rating; +200% from prior – Fast switching times (turn on/off) – Dual; two MOSFETs in one package – Extended qualification beyond AEC-Q101	– Minimized conduction losses – Superior switching performance – High power density in 5x6mm package – Integration - two MOSFETs in a package; less SMD assembly time – PCB layout flexibility

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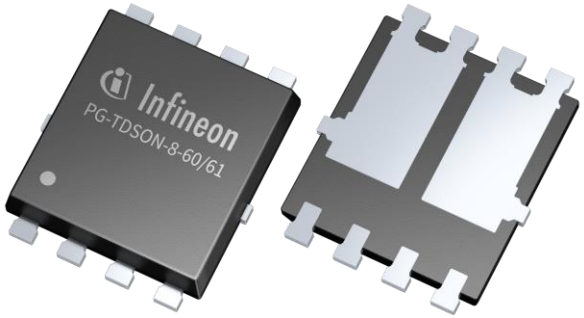
OptiMOS™ 5 100 V in Dual SSO8

New Product Introduction

- Infineon introduces its new generation of dual 100 V MOSFETs. These OptiMOS™ 5 100 V automotive MOSFETs are offered in our newly enhanced, dual SSO8 5x6 mm^2 surface mount package.
- They feature two independent MOSFETs integrated in one package for PCB area savings and higher power density. They are designed specifically for the high performance, high quality and robustness needed for demanding automotive applications.
- The Dual SSO8 (PG-TDSON-8) package was enhanced by use of copper clip interconnect technology, improving thermal performance. It also improves the continuous current rating by 200 percent over the prior generation; from 20 A to 60 A max. in the lowest on-resistance products.
- The upgrade to OptiMOS™ 5 100 V front-end technology, coupled with the package enhancements, greatly improves on-resistance.

SSO8 5x6 mm^2



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]
IAUCN10S5L094D	IAUCN10S5L094DATMA1	100	9.4	23	1.6	216.2	60
IAUCN10S5L280D	IAUCN10S5L280DATMA1	100	28.0	7.6	4	212.8	20

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