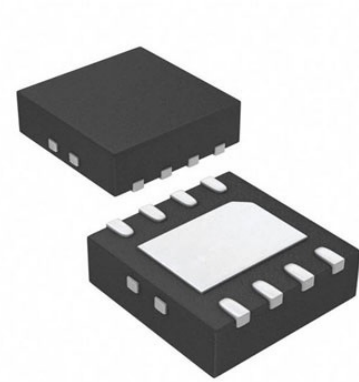


Manufacturers	Infineon Technologies Corporation
Package/Case	PG-TDSON-8
Product Type	
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISC027N10NM6ATMA1 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

ISC027N10NM6 OptiMOS™ 6 100 V in normal level is setting the new technology standard in the field of discrete power MOSFETs. Compared to alternative products, Infineon's leading thin wafer technology is enabling significant performance benefits.

Infineon's OptiMOS™ 6 industrial power MOSFET 100 V is designed for high switching frequency application such as telecom and server power supply, but also the ideal choice for other applications such as solar, power tools and drones.

In SuperSO8 package it achieves ~20% improvements in on-state resistance ($R_{DS(on)}$) and 30% better figure of merits ($FOM - R_{DS(on)} \times Q_g$ and Q_{gd}) compared to the previous technology OptiMOS™ 5. This enables designers to increase efficiency, allowing easier thermal design and less paralleling, leading to system cost reduction.

Compared to OptiMOS™ 5, the new technology achieves:

~20% lower $R_{DS(on)}$

30% improved FOM_g and 40% better FOM_{gd}

Lower and softer reverse recovery charge (Q_{rr})

Ideal for high switching frequency

MSL 1 classified according to J-STD-020

175 °C junction temperature rating

High avalanche energy rating

Pb-free lead plating

RoHS compliant

Low conduction losses

Low switching losses

Fast turn on and off

Less paralleling required

Robust reliable performance

Environmentally friendly

Less paralleling required

Telecom

Server

Drones

Robotics

Solar

Power tools

Battery management system

Features

DS(on)

30% improved FOM

g

gd

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Application

Telecom

Server

Drones

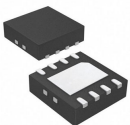
Robotics

Solar

Power tools

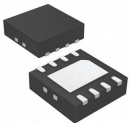
Battery management system

Related Products



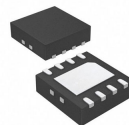
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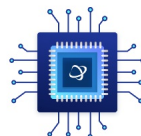
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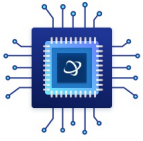
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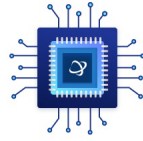
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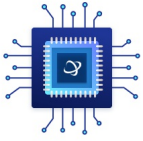
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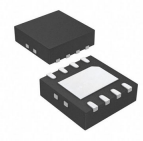
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