

OptiMOS™ 6 40V power MOSFETs combining best-in-class $R_{DS(on)}$ with superior switching performance

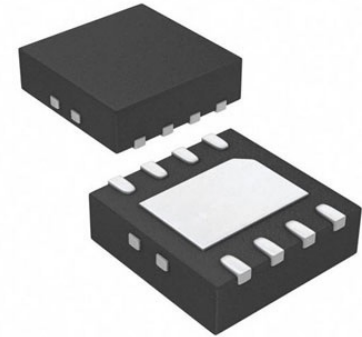
Manufacturers [Infineon Technologies Corporation](#)

Package/Case PG-TDSON-8

Product Type

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for BSC059N04LS6ATMA1 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The OptiMOS™ 6 power MOSFET 40V family is optimized for a variety of applications and circuits, such as synchronous rectification in switched mode power supplies (SMPS) in servers, desktop PCs, wireless chargers, quick chargers and ORing circuits. Improvements in on-state resistance ($R_{DS(on)}$) and figure of merits (FOM - $R_{DS(on)} \times Q_g$ and Q_{gd}) enable designers to increase efficiency, allowing easier thermal design and less paralleling, leading to system cost reduction.

Features

Compared to alternative products:

RDS(on) reduced by 30%

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Improved FOM $Q_g \times RDS(on)$ by 29%

Improved FOM $Q_{gd} \times RDS(on)$ by 46%

Optimized for synchronous rectification

Suited for ORing circuits

RoHS compliant - halogen free

MSL1 rated

Highest system efficiency

Less paralleling required

Increased power density

Very low voltage overshoot

Reduced need for snubber circuit

System cost reduction

Related Products



[BSS192P](#)

Infineon Technologies Corporation
SOT89



[BSP280](#)

Infineon Technologies Corporation
SOT223



[BSP299](#)

Infineon Technologies Corporation
SOT-223



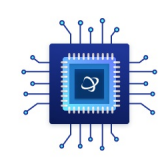
[BSP125](#)

Infineon Technologies Corporation
SOT-223



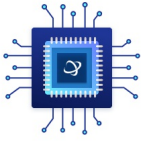
[BSP129](#)

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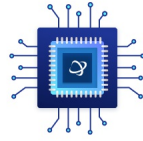
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