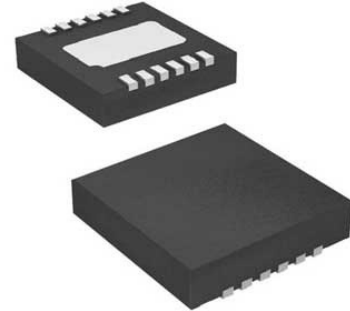


GreenBridge, TM 2 Series of High-Efficiency Bridge Rectifiers

Manufacturers	ON Semiconductor, LLC
Package/Case	WDFN-12
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for FDMQ8205 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

FDMQ8205 is GreenBridgeTM2 series of quad MOSFETs for a bridge application so that the input will be insensitive to the polarity of a power source coupled to the device. Many known bridge rectifier circuits can be configured using typical diodes. The conventional diode bridge has relatively high power loss that is undesirable in many applications. Especially, Power over Ethernet (PoE) Power Device (PD) application requires high-efficiency bridges because it should be operated with the limited power delivered from Power Source Equipment (PSE) which is classified by IEEE802.3at. FDMQ8205 is configured with low $r_{DS(on)}$ dual P-ch MOSFETs and N-ch MOSFETs so that it can reduce the power loss caused by the voltage drop, compared to the conventional diode bridge. FDMQ8205 enables the application to maximize the available power and voltage and to eliminate the thermal design problems in PoE PD applications. FDMQ8205 GreenBridgeTM2 is compatible with IEEE802.3at PoE standard by not compromising detection and classification requirement as well as small backfeed voltage.

Features

Low Power Loss GreenBridgeTM Replaces Diode Bridge

Self Driving Circuitry for MOSFETs

Low $r_{DS(on)}$ 80V Rated MOSFETs

Maximizing Available Power and Voltage

Eliminating Thermal Design Problems

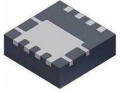
IEEE802.3at Compatible Meet Detection and Classification Requirement Work with 2 and 4-pair Architecture Small Backfeed Voltage

Compact MLP 4.5x5 Package

Application

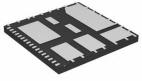
ONSEMI

Related Products



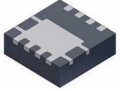
[FDMF8811](#)

ON Semiconductor, LLC
36-PowerWFQFN



[FDMF6821B](#)

ON Semiconductor, LLC
PQFN-40



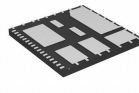
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ON Semiconductor, LLC
31-PowerWFQFN



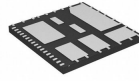
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PQFN-24



[FDMF6823B](#)

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PQFN-40



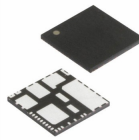
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[FDMF5820DC](#)

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PQFN-31



[FDMF4061](#)

ON Semiconductor, LLC
PQFN-36