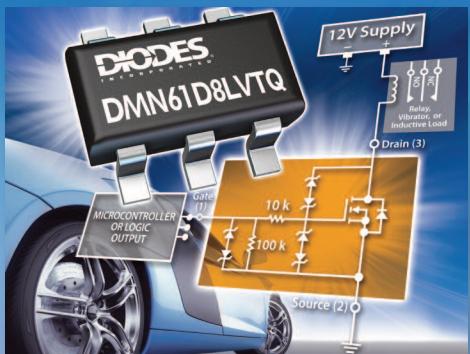


THE LEADING EDGE...  
**MOSFETs**  
APPLICATION FOCUS



**Integrated Inductive Load Driver**

**DMN61D8LVTQ**  
**DMN61D8LQ**

Automotive 60V N-channel  
MOSFET in TSOT26 and SOT23

**Applications:**

- Automotive Inductive-loads
- Small DC motors
- Window and door latch
- Relays and solenoids

**Benefit:**

- Fully integrated to reduce component count and save PCB space

**H-Bridge Shrinks Motor Driver Footprint**

**DMHC10H170SFJ**  
**DMHC3025LSD**  
**DMHC4035LSD**

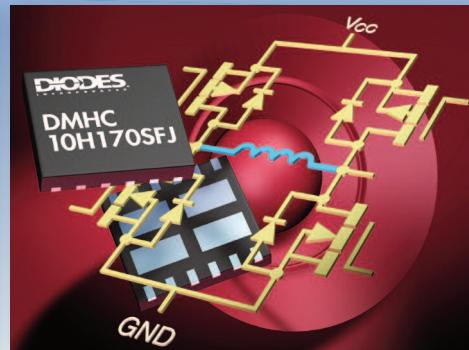
2x NMOS + 2x PMOS H-Bridges  
in DFN5045 and SO8

**Applications:**

- Ultrasonic transducers
- Automotive seats and ventilation
- DC motors in 48V telecom fans
- Inductive wireless charging

**Benefit:**

- Full H-Bridge to save PCB space, reduce component count and assembly costs



**Reduce Losses in Load Switching**

**DMP1022UFDF**  
**DMP2021UFDF**

12V and 20V P-channel  
MOSFETs in DFN2020 (2 x 2 mm)

**Applications:**

- Portable battery management
- Internet of Things (IoT)
- Ultrabooks, Tablets
- Drives inc. SSD & HDD

**Benefit:**

- Maximize power efficiency with the minimal conduction losses on low voltage rails

## Mini FETs Take Less Space

**DMN2990UFZ**  
**DMN31D5UFZ**  
**DMP32D9UFZ**

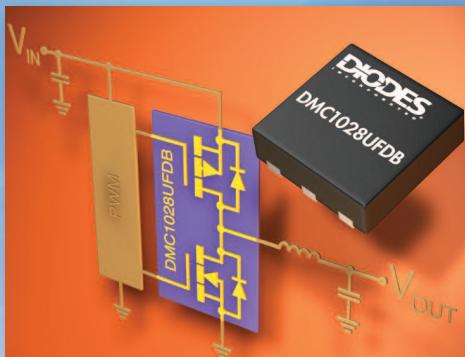
20V and 30V nMOS and pMOS  
MOSFETs in DFN0606 (0.6 x 0.6 mm)

Applications:

- Internet of Things (IoT)
- Wearable Technology
- Tablets, Smartphones

Benefit:

- 40% less board space than DFN1006 (SOT883) and SOT123



## Complementary MOSFETs Enhance POL Power Density

**DMC1028UFDB**

Complementary 12V MOSFET in DFN2020 (2 x 2 mm)

Applications:

DC-DC buck converters in:

- Ethernet network controllers
- DSL Routers, Switches, NICs
- Set-Top Boxes (STB)
- Network Attached Storage (NAS)

Benefit:

- Customized for 3.3V to 1V point-of-load (POL) converter to increase power density

## MOSFETs Optimized for PoE

**DMN10H120SFG**

100V N-channel MOSFET in PowerDI®3333 (3.3 x 3.3 mm)

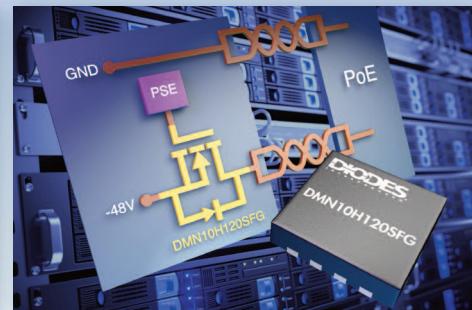
Applications:

48V Power-over-Ethernet:

- Building management
- VoIP phones
- IP security cameras

Benefit:

- Optimized switch for IEEE 802.3 compliant 48V PoE systems



## MOSFET Protects Vehicle ECUs

**DMP4015SPSQ**

Automotive 40V P-channel MOSFET in PowerDI®5060

Applications:

Reverse battery protection:

- Automotive 12V and 24V
- Electronic Control Unit (ECU)
- Cars and trucks

Benefit:

- Ideal diode that protects against accidental reverse battery connection whilst withstanding ISO7637 energy pulses

## Bi-directional MOSFET Enables Higher Capacity Batteries

**DMN2023UCB4**

20V dual N-channel back-to-back in Chip-Scale Packaging

Applications:

1- and 2-cell lithium batteries:

- Portable battery management
- Smartphones, tablets, cameras
- Internet of Things (IoT)
- Drones

Benefit:

- Minimizing power loss in small and thin footprint to increase battery power density

