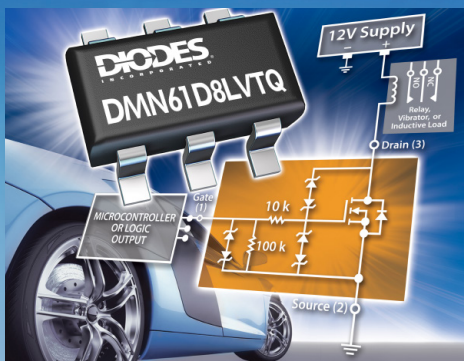


MOSFETs

APPLICATION FOCUS



Integrated Inductive Load Driver

DMN61D8LVTQ | Automotive 60V N-channel MOSFET in TSOT26 and SOT23
DMN61D8LQ

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

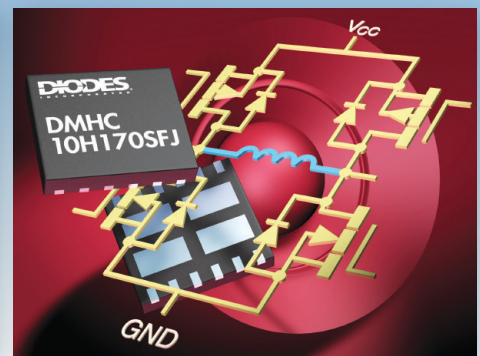
DMHC10H170SFJ | 2x NMOS + 2x PMOS H-Bridges in DFN5045 and SO8
DMHC3025LSD
DMHC4035LSD

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 | 12V and 20V P-channel MOSFETs in DFN2020 (2 x 2 mm)
DMP2021UFDF

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

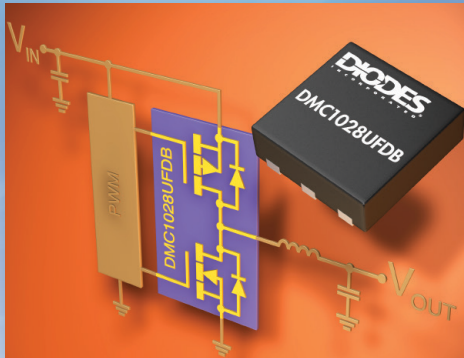
20V and 30V nMOS and pMOS MOSFETs in DFN0606 (0.6 x 0.6 mm)

Applications:

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

Benefit:

- 40% less board space than DFN1006 (SOT883) and SOT1123



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

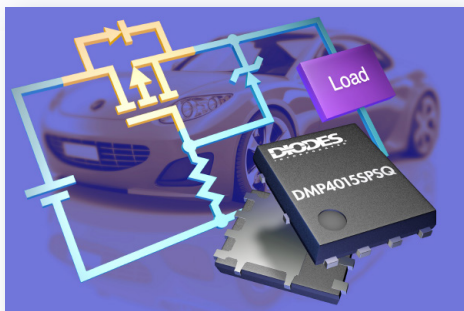
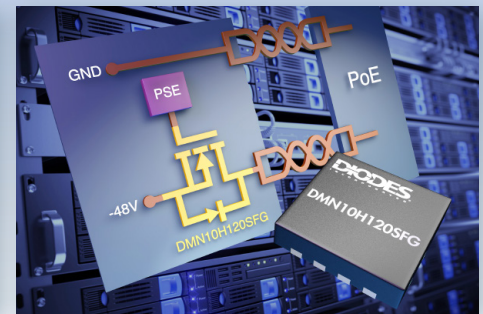
DMN10H120SFG | 100V N-channel MOSFET in PowerDI®3333 (3.3 x 3.3 mm)

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

DMP4015SP5Q | 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

